EXHIBIT 11

PTO/SB/05 (02-07)

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UTILITY	Attorney Docket No.	ALC 3328-CON			
PATENT APPLICATION	First Inventor	John Madsen			
TRANSMITTAL	Title	Ingress Traffic Flow Control in a Data Communications System			
(Only for new nonprovisional applications under 37 CFR 1.53(b))	Express Mail Label No.				
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO:	Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450			
1. Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing)	ACCOMPAN	YING APPLICATION PARTS			
2. Applicant claims small entity status. See 37 CFR 1.27.	9. 🗸 Assignment Pa	pers (cover sheet & document(s))			
3. Specification [Total Pages 14] Both the claims and abstract must start on a new page (For information on the preferred arrangement, see MPEP 608.01(a))		nee_ALCATEL LUCENT			
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5. Oath or Declaration [Total Sheets 2] a. Newly executed (original or copy)	10. 37 CFR 3.73(b) (when there is				
b. A copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed) i. DELETION OF INVENTOR(S)	11. English Transla	ation Document (if applicable)			
Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).	12. Information Disclosure Statement (PTO/SB/08 or PTO-1449) Copies of citations attached				
6. Application Data Sheet. See 37 CFR 1.76	13. Preliminary Amendment				
7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) Landscape Table on CD	14. 📝 Return Receipt Postcard (MPEP 503) (Should be specifically itemized)				
Nucleotide and/or Amino Acid Sequence Submission (if applicable, items a. – c. are required)	15. Certified Copy of Priority Document(s) (if foreign priority is claimed)				
a. Computer Readable Form (CRF) b. Specification Sequence Listing on:	16. Nonpublication Request under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent.				
i. CD-ROM or CD-R (2 copies); or ii. Paper	17. Other:				
c. Statements verifying identity of above copies					
18. If a CONTINUING APPLICATION, check appropriate box, and suppoperation following the title, or in an Application Data Sheet under 37	ly the requisite information CFR 1.76:	below and in the first sentence of the			
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(Print/Type) Terry W. Kramer		Registration No. (Attorney/Agent) 41,541			

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Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 4 of 32&_{TO/SB/14} (11-08) Approved for use through 01/31/2014. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Application Da	ta Sheet 37 CFR 1.76	Attorney Docket Number	ALC 3328-CON	
Application ba	——————————————————————————————————————	Application Number		
Title of Invention	Title of Invention INGRESS TRAFFIC FLOW CONTROL IN A DATA COMMUNICATIONS SYSTEM			
Customer Number	76614			

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78(a)(2) or CFR 1.78(a)(4), and need not otherwise be made part of the specification.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	11907871	2007-10-18
Additional Domestic Benefi by selecting the Add buttor	t/National Stage Data may be		2007-10-18

Foreign Priority Information:

This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(a).

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Application Number	Country	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
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Assignee Information:

Providing this information in the application data sheet does not substitute for compliance with any requirement of part 3 of Title 37 of the CFR to have an assignment recorded in the Office. Assignee 1 If the Assignee is an Organization check here. \boxtimes Organization Name Alcatel-Lucent Mailing Address Information: Address 1 54, rue La Boetie Address 2 City Paris State/Province Country FR Postal Code 75008 Phone Number Fax Number **Email Address** Additional Assignee Data may be generated within this form by selecting the Add button.

Signature:

A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18, Please see 37 CFR 1.4(d) for the form of the signature.

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Applicatio	n Data S	hoot 27 CED 4 76	Attorney Docket Numbe	ALC 3328-CON			
Applicatio	plication Data Sheet 37 CFR 1.76 Application Number						
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Signature	Perry	W. Thans		Date (YYYY-MM-DD)	2012-01-27		
First Name	Terry /	Last Name	Kramer	Registration Number	41541		

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INGRESS TRAFFIC FLOW CONTROL IN A DATA COMMUNICATIONS SYSTEM

Field of the invention

[001] The invention is directed to data packet communications systems, and in particular to controlling the flow of incoming data packets to data processing resources in such systems.

Background of the Invention

[002] Flow control is performed on ingress data packets when the incoming rate of the data packets over a given period of time exceeds the rate at which the data packets can be processed. The excessive incoming rate of data packets results in increased fill-levels of ingress queues to the data processing resources, any of which levels can cause flow control measures to be initiated when the level exceeds a predetermined threshold. One flow control technique used in data communications that is in accordance with the aforementioned principle is backpressure signaling.

[003] A simple backpressure signaling technique is to use on-off signaling. According to this technique, a receiver queue of a data communications system, upon crossing a fill-level threshold, causes a backpressure signal (e.g. halt) to be generated that is sent to the source of the packets. The backpressure signal (halt) indicates to the source that it should suspend sending packets to that queue until further notice, which will be given in the form of another backpressure signal (e.g. resume). In some cases there can be more than one packet source, and in those cases the backpressure signal would normally be sent to all of those sources. A problem with this simple on-off backpressure signaling is that all traffic is treated identically. That is, high-priority, network-control traffic undergoes the same backpressure as low-priority, best-effort traffic, to the point where a flood of low-priority traffic can halt the flow of low-bandwidth, high-priority traffic.

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Impeding the flow of high-priority traffic can have service affecting implications such as network instability and lost data.

[004] More advanced backpressure signaling techniques are known that use more than simple on-off signaling. These techniques include those that apply flow control to data packets of only certain priorities. According to such techniques, when the fill-level threshold of a priority-specific receiver queue is crossed, traffic of the corresponding priority is halted using on-off backpressure signaling. This approach is able to ensure that low-priority traffic does not impede the flow of higher-priority traffic. However, a disadvantage of this approach is that ingress bandwidth may go unutilized. For example, low priority traffic may be halted when a corresponding fill-level threshold is crossed even when no higher priority traffic is present.

[005] Accordingly, there is a need to provide ingress traffic flow control that gives precedence to high-priority traffic over low-priority traffic while minimizing unutilized ingress bandwidth.

Summary of the Invention

[006] It is an object of the invention to provide improved method and apparatus for ingress traffic flow control in a data communication system.

[007] According to an aspect of the invention there is provided a traffic flow control system for controlling a flow of ingress data packets to be transmitted over a serial link, the system comprising: a plurality of ingress buffers, one or more of which for storing a respective type of data packets in the flow of ingress data packets; a plurality of rate limiters, one or more of which for providing an amount of rate limiting to a flow of data packets from a respective ingress buffer, the amount of rate limiting being dependent upon a nominal amount of rate limiting adjusted by a weighting factor corresponding to that rate limiter; a

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multiplexer for receiving data packets from the plurality of rate limiters and serially multiplexing the data packets for transmission over the serial link; and a controller operable to receive a backpressure message indicating a fill-level state of receive queues for receiving data packets from the serial link, and being operable to determine weighting factors for the rate limiters according to the backpressure message.

[008] According to an aspect of the invention there is provided a method of performing flow control on a flow of data packets for transmission over a serial link, the method comprising the steps of: receiving a backpressure message having contents that indicates one of a plurality of fill-level states of receive queues coupled to the serial link for receiving the data packets, wherein one or more of the receive queues corresponds to a respective type of data packet traffic; determining a set of weighting factors by reading them from a mapping of weighting factors to various backpressure messages according to the contents of the backpressure message, wherein the mapping includes for a given backpressure message content, a set of weighting factors of which one or more weighting factors corresponds to a respective type of data packet traffic; and adjusting an amount of rate limiting applied to data packets of like type by a respective weighting factor of the determined set of weighting factors.

[009] Some embodiments of the invention provide flow control of incoming data packets to data processing resources by using an intelligent controller that can receive and react to advanced backpressure messages. The backpressure messages can be considered to be multi-level and multi-dimensional because they provide information on the fill-level of receive queues of different traffic priorities, hence multi-level, and of various traffic types, hence multi-dimensional. These advanced backpressure messages are used to limit the rate of data based on, but not limited to, some of the following factors: class, priority, port, customer, type of data, etc. The intelligent controller may also take this information and generate a traffic preference message to an upstream data processing unit to

inform the upstream unit of the most appropriate type of data that should be transmitted downstream at that time, thereby improving the likelihood of the transmitted data being processed in a proper and timely manner by downstream data processing resources.

[0010] Advantageously, embodiments of the invention improve the performance of an ingress data path of a communications system by ensuring that high-priority traffic has precedence over traffic of lower priority while maximizing utilization of the ingress data path bandwidth.

Brief Description of the Drawings

[0011] The invention will be further understood from the following detailed description with reference to the drawings, in which:

Figure 1 is a high-level block diagram of an ingress traffic flow control system according to an embodiment of the invention; and

Detailed Description

[0012] Referring to Figure 1, an ingress traffic flow control system 10 controls the flow of ingress data packets 12 to a downstream data processing unit 34. The system 10 includes ingress buffers 14, 16, 18 for receiving the ingress data packets 12 and temporarily storing them before they are transmitted on a serial link 28 to the data processing unit 34. The ingress buffers 14, 16, 18 are each associated with a respective priority level high, medium, low, and each stores data packets of a corresponding priority therein. Rate limiters 20, 22, 24 control the rate at which data packets from respective ingress buffers 14, 16, 18 are forwarded to a multiplexer 26 that multiplexes the data packets onto the serial link 28. The multiplexer 26 employs a simple round-robin technique to multiplex data packets onto the serial link 28. Each rate limiter 20, 22, 24 applies an amount of rate limiting in accordance with a respective weighting factor W1, W2, W3 provided by a controller 42. Any of the weighting factors may be varied by the

controller **42** as will be explained later. The resulting flow of serial data packets **30** on the serial link **28** comprises flows of data packets of high, medium, and low priorities, as may be available in the flow of ingress data packets **12**, at individual flow rates that are limited by the corresponding rate limiters **20**, **22**, **24**.

[0013] The downstream data processing unit 34 for processing the serial data packets 30 includes an ingress queue module 32 and a backpressure signaling module 38 in addition to data processing functionality, which is not shown for simplicity and because it is not relevant to this embodiment of the invention. The downstream data processing unit 34 receives serial data packets 30 from the serial link 28 and performs data packet processing thereon resulting in a flow of egress data packets 36. As may be necessary from time to time and depending on the respective incoming rates of high, medium and low priority data packets in the flow of serial data packets 30 and on the processing to be performed thereon, the backpressure signaling module 38 may generate and send a multi-priority backpressure message 40 to the controller 42 to affect the flow of serial data packets 30 that are incoming to the data processing unit 34. The generation and use of the multi-priority backpressure message 40 will be explained after the ingress queue module 32 is explained in more detail.

[0014] The ingress queue module 32 includes receive queues Q1, Q2, Q3 which each have one or more fill-level thresholds. The receive queue Q3 has two such fill-level thresholds T3 and T4, the latter of which is at a higher level than the former. An example fill-level of the receive queue Q3 is shown as being between the fill-level thresholds T3 and T4. The receive queue Q2 has only one fill-level threshold T2 and is shown having an example fill-level that is below the threshold T2. Likewise, the receive queue Q1 has only one fill-level threshold T1 and is shown having an example fill-level that is below the threshold T1.

[0015] The backpressure signaling module 38 generates a multi-priority backpressure message 40 having a given value BP that is determined by

considering, in combination, the fill-level of each of the receive queues Q1, Q2, Q3 in comparison to their respective fill-level thresholds T1, T2, T3 and T4. For example, the backpressure signaling module 38 may generate a backpressure signaling message having a content BP=0 if the fill-levels of all the receive queues Q1, Q2, Q3 are below their respective fill-level thresholds T1, T2, T3 and T4; whereas another content BP=1 may be generated for the example fill-levels shown in Figure 1. The flow control to be performed for a given content BP of the multi-priority backpressure message 40 is determined by the controller 42 according to a configurable mapping 44 of backpressure message 40 content BP to values of the weighting factors W1, W2, W3.

[0016] Table 1 shows the an example configurable mapping of weighting factors W1, W2, W3 to backpressure message 40 content BP for various combinations of fill-level of the receive queues Q1, Q2, Q3 compared to their respective filllevel thresholds T1, T2, T3 and T4. The receive queues Q1, Q2, Q3 correspond to traffic priorities of high, medium and low, respectively. In the table, under the weighting factors "none" means no rate limiting, "block" means halt traffic flow, and "limit" means normal rate limiting for the given priority of traffic. The specific amount of rate limiting corresponding normal rate limiting could be anywhere between the former two rate limiting extremes, i.e. halt traffic and no rate limiting, and would be configurable. To preserve the precedence of higher priority traffic over lower priority traffic, the amount of rate limiting corresponding to normal rate limiting would increase for progressively lower priorities of traffic. In this way, when all of the rate limiters 20, 22, 24 are applying normal rate limiting, e.g. corresponding to BP=7 in Table 1, the precedence of higher priority traffic over lower priority traffic would be maintained. Furthermore, with reference to BP=8 in Table 1, good bandwidth utilization is maintained by not blocking low priority traffic even if the fill level of the corresponding receive queue Q3 has exceeded the 2nd fill-level threshold T4, as long as the fill levels of the medium and high priority receive queues Q2 and Q1 are below their respective fill-level thresholds **T2** and **T1**.

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Table 1: Configurable mapping of weighting factors

BP	Q1 fill	Q2 fill	Q3 fill	W1	W2	W3
	level	level	level			
0	<t1< td=""><td><t2< td=""><td><t3< td=""><td>None</td><td>None</td><td>None</td></t3<></td></t2<></td></t1<>	<t2< td=""><td><t3< td=""><td>None</td><td>None</td><td>None</td></t3<></td></t2<>	<t3< td=""><td>None</td><td>None</td><td>None</td></t3<>	None	None	None
1	<t1< td=""><td>>T2</td><td><t3< td=""><td>None</td><td>None</td><td>None</td></t3<></td></t1<>	>T2	<t3< td=""><td>None</td><td>None</td><td>None</td></t3<>	None	None	None
2	>T1	<t2< td=""><td><t3< td=""><td>None</td><td>None</td><td>Limit</td></t3<></td></t2<>	<t3< td=""><td>None</td><td>None</td><td>Limit</td></t3<>	None	None	Limit
3	>T1	>T2	<t3< td=""><td>None</td><td>Limit</td><td>Limit</td></t3<>	None	Limit	Limit
4	<t1< td=""><td><t2< td=""><td>>T3, <t4< td=""><td>None</td><td>None</td><td>Limit</td></t4<></td></t2<></td></t1<>	<t2< td=""><td>>T3, <t4< td=""><td>None</td><td>None</td><td>Limit</td></t4<></td></t2<>	>T3, <t4< td=""><td>None</td><td>None</td><td>Limit</td></t4<>	None	None	Limit
5	<t1< td=""><td>>T2</td><td>>T3, <t4< td=""><td>None</td><td>Limit</td><td>Limit</td></t4<></td></t1<>	>T2	>T3, <t4< td=""><td>None</td><td>Limit</td><td>Limit</td></t4<>	None	Limit	Limit
6	>T1	<t2< td=""><td>>T3, <t4< td=""><td>None</td><td>Limit</td><td>Limit</td></t4<></td></t2<>	>T3, <t4< td=""><td>None</td><td>Limit</td><td>Limit</td></t4<>	None	Limit	Limit
7	>T1	>T2	>T3, < T 4	Limit	Limit	Limit
8	<t1< td=""><td><t2< td=""><td>>T4</td><td>None</td><td>None</td><td>Limit</td></t2<></td></t1<>	<t2< td=""><td>>T4</td><td>None</td><td>None</td><td>Limit</td></t2<>	>T4	None	None	Limit
9	<t1< td=""><td>>T2</td><td>>T4</td><td>None</td><td>Limit</td><td>Block</td></t1<>	>T2	>T4	None	Limit	Block
10	>T1	<t2< td=""><td>>T4</td><td>None</td><td>None</td><td>Block</td></t2<>	>T4	None	None	Block
11	>T1	>T2	>T4	Limit	Block	Block

[0017] It should be understood that the foregoing is a simple embodiment of the invention. Other, more complex embodiments could have hundreds of receive queues Q1, Q2, Q3 and ingress buffers 14, 16, 18 and corresponding rate limiters 20, 22, 24. Any of the receive queues Q1, Q2, Q3 could be a hierarchical grouping of sub-queues. Furthermore, any of the receive queues Q1, Q2, Q3 could be associated with one or more of traffic priority, class, type, source port, destination port, etc. Likewise with the ingress buffers 14, 16, 18 and corresponding rate limiters 20, 22, 24. However, regardless of the foregoing variations, these embodiments would have two common aspects: a backpressure signaling module 38 that is operable to generate and transmit a backpressure message 40 that provides an indication of that status of the fill-level of receive queues Q1, Q2, Q3 in comparison to their respective fill-level thresholds T1, T2, T3 and T4; and a controller 42 operable to receive the backpressure message 40 and determine an amount of rate limiting to apply to ingress data packets

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depending on the content **BP** of the backpressure message **40** and a configurable mapping **44** of the content **BP** and rate limiting weighting factors **W1, W2, W3**.

[0018] The configurable mapping 44 would be configured for a given communication system according to the data processing resources that are present in the system and other service or application specific provisioning existing in the system, for example as could relate to one or more virtual private networks. The controller 42 using the configurable mapping 44 along with the content BP of the backpressure message 40 determines rate limiting that should be performed on the ingress data packets as a method of flow control. This rate limiting may be based on, but is not limited to, some of the following factors: traffic class, traffic priority, destination port, customer network e.g. VPN, type of data, etc. This rate limiting is implemented by altering weighting factors W1, W2, W3 in one or more of the rate limiters 20, 22, 24, as specified in the configurable mapping 44. Such an intelligent controller 42 can not only interpret simple on-off (link-level or per-virtual output queue (VOQ)) backpressure messages but also advanced backpressure messages 40 that can include priority, class, type of traffic, source port, destination port, etc. These advanced backpressure messages 40 can be considered multi-level and multi-dimensional.

[0019] These advanced backpressure messages 40 that are sent during periods of congestion or near-congestion allow a downstream data processing unit 34 to aid the controller 42, which data to best send next. The controller 42 uses this advanced backpressure message 40 and the configurable mapping 44 to determine the most appropriate data to transmit next. The controller may generate a traffic preference message 46 to convey this determination to an upstream data processing unit to inform the upstream unit of the most appropriate type of data that should be transmitted downstream at that time, thereby improving the likelihood of the transmitted data being processed in a proper and timely manner by downstream data processing resources. Thus, the

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intelligently selected traffic has a lower probability of being rejected by the downstream data processing unit **34** resulting in improved system performance. For example, referring to **Table 1** under **BP=9**, the traffic preference message would indicate that high priority traffic is preferred since medium priority traffic will be rate limited and low priority traffic will be blocked.

[0020] Data processing units that can make use of these traffic preference messages 46 include enhanced buffer managers that incorporate multi-level multi-dimensional aspects in their arbitration schemes. Additionally, a memory-less admission check-point for the passage of data could also make use of the traffic preference messages 46. Such a check-point would use the information in the traffic preference message 46 to provide instantaneous admittance of preferred, hence highly valued, data during times of data congestion at the downstream data processing unit, thereby improving the effectiveness of the data communications system.

[0021] Advantageously, the use of a controller 42 capable of receiving and reacting to advanced backpressure messages 40 improves system throughput efficiency. Appropriate data is transmitted to the downstream data processing unit 34 during periods of traffic congestion resulting in lower loss of high valued data. The more high valued data that can be processed, especially during periods of congestion, or near-congestion, the greater value the communication system is to an end user.

[0022] Numerous modifications, variations and adaptations may be made to the embodiments of the invention described above without departing from the scope of the invention, which is defined in the claims.

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WHAT IS CLAIMED IS:

1. A method of performing flow control on a flow of data packets for transmission

over a serial link, the method comprising the steps of:

a) receiving a backpressure message having contents that indicates one of a

plurality of fill-level states of receive queues coupled to the serial link for

receiving the data packets, wherein one or more of the receive queues

corresponds to a respective type of data packet traffic;

b) determining a set of weighting factors by reading them from a mapping of

weighting factors to various backpressure messages according to the contents of

the backpressure message, wherein the mapping includes for a given

backpressure message content, a set of weighting factors of which one or more

weighting factors corresponds to a respective type of data packet traffic; and

c) adjusting an amount of rate limiting applied to data packets of like type by a

respective weighting factor of the determined set of weighting factors.

2. The method of claim 1, further comprising generating a traffic preference

message for transmission to a source of the flow of data packets, the traffic

preference message indicating a type of data packet traffic preferred for

transmission over the serial link in accordance with the determined set of

weighting factors.

3. The method of claim 2, wherein the type of data packet is distinguished by one

or more of the following parameters: traffic priority, traffic class, destination port,

destination address, source address, and virtual private network identifier.

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4. The method of claim 3, wherein at least one state of the plurality of fill-level states corresponds to a comparison of individual fill-levels of two or more receive queues with respective fill-level thresholds of those queues.

- 5. The method of claim 1, wherein a weighting factor in a given set of weighting factors, the weighting factor corresponding to one type of data packet traffic, has a value that is dependent on a fill-level state of a receive queue for the same type of data packet traffic and on a fill-level state of another receive queue for different type of data packet traffic.
- 6. The method of claim 1, wherein the weighting factors are configurable so as to effect, for at least one type of data packets, an amount of rate limiting having a value in an inclusive range between one extreme of no rate limiting and another extreme of blocking all data packets of that type.
- 7. The method of claim 6, wherein the weighting factors have been configured for a given communication system according to one or more of: data processing resources that are present in the system, service-specific or application-specific provisioning existing in the system.
- 8. A traffic flow control system for controlling a flow of ingress data packets to be transmitted over a serial link, the system comprising:
- a plurality of ingress buffers, one or more of which for storing a respective type of data packets in the flow of ingress data packets;
- a plurality of rate limiters, one or more of which for providing an amount of rate limiting to a flow of data packets from a respective ingress buffer, the amount of rate limiting being dependent upon a nominal amount of rate limiting adjusted by a weighting factor corresponding to that rate limiter;

a multiplexer for receiving data packets from the plurality of rate limiters and serially multiplexing the data packets for transmission over the serial link; and

a controller operable to receive a backpressure message indicating a fill-level state of receive queues for receiving data packets from the serial link, and being operable to determine weighting factors for the rate limiters according to the backpressure message.

- 9. The system of claim 8, wherein the controller comprises a mapping of weighting factors to backpressure messages for determining the weighting factors.
- 10. The system of claim 9, further comprising a backpressure signaling module operable to generate the backpressure message by comparing fill-levels of the receive queues with respective fill-level thresholds.
- 11. The system of claim 10, wherein one or more of the receive queues are associated with a respective type of data packets.
- 12. The system of claim 11, wherein the type of data packets is distinguished by one or more of the following parameters: traffic priority, traffic class, destination port, destination address, source address, and virtual private network identifier.
- 13. The system of claim 8, wherein the weighting factors are configurable so as to effect, for at least one type of data packets, an amount of rate limiting having a value in an inclusive range between one extreme of no rate limiting and another extreme of blocking all data packets of that type.
- 14. The system of claim 13, wherein the weighting factors have been configured for a given communication system according to one or more of: data processing

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resources that are present in the system, service-specific or application-specific provisioning existing in the system.

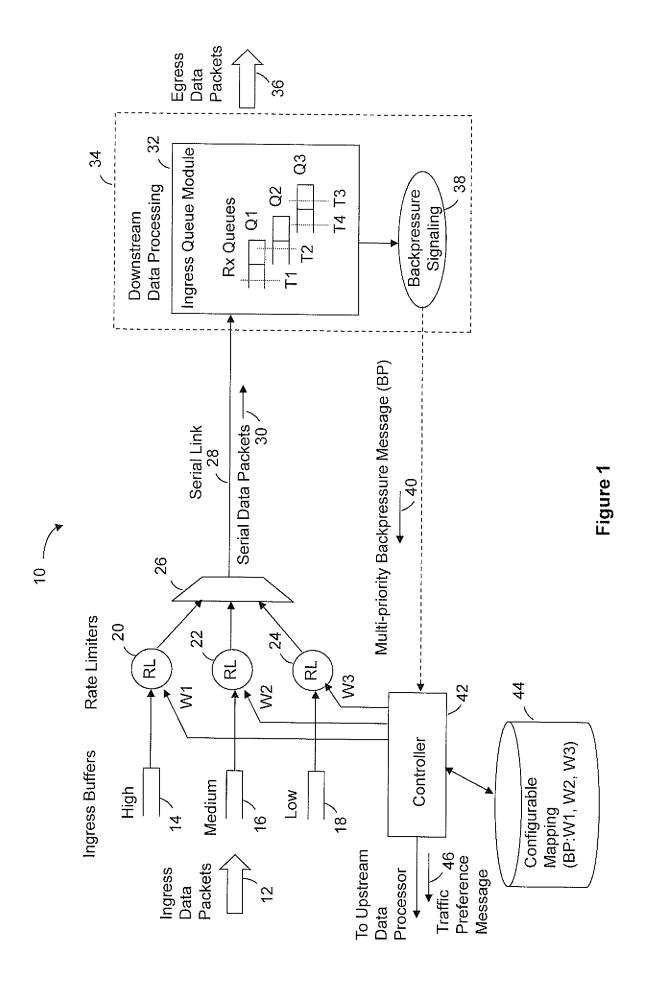
15. The system of claim 11, wherein a weighting factor associated with a specific backpressure message and type of data packets has a value in the mapping that is dependent on a fill-level of a receive queue for the same type of data packets and on a fill-level of another receive queue for different type of data packets.

16. The system of claim 8, wherein the controller is further operable to generate a traffic preference message for transmission to a source of the flow of ingress data packets, the traffic preference message indicating a type of data packet traffic preferred for transmission over the serial link in accordance with the determined weighting factors.

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ABSTRACT

[0023] Embodiments of the invention provide flow control of incoming data packets to data processing resources via a controller that can receive and react to advanced backpressure messages. These advanced backpressure messages are used to rate limit the data packets based one or more of the following factors: traffic class, traffic priority, destination port. The controller can also generate a traffic preference message to an upstream source of the data packets to inform the upstream unit of the most appropriate type of data that should be transmitted downstream at that time, thereby improving the likelihood of the transmitted data being processed in a proper and timely manner by the downstream data processing resources. Embodiments of the invention can improve the performance of a communications system during periods of congestion by ensuring that high-priority traffic has precedence over traffic of lower priority while maximizing utilization of the ingress data path bandwidth.



PATENT APPLICATION

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION ATTORNEY DOCKET NO. ALC 3328-CON CUSTOMER NUMBER: 30868

As a below named inventor, I hereby declare that:

My residence/post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

INGRESS TRAFFIC FLOW CONTROL IN A DATA COMMUNICATIONS SYSTEM

the specification of which is attached hereto unless the following box is checked:

F			ICCRCG.
C	was filed on _	as US Application Serial No	o. or PCT International Application Number
		and was amended on	(if applicable).
I hereby sta	te that I have rev	iewed and understood the contents of the above-	identified specification, including the claims.
as amended	l by any amendm	ent(s) referred to above. I acknowledge the dut	y to disclose all information which is materia
to patentab	ility as defined i	a 37 CFR 1.56.	-

Foreign Application(s) and/or Claim of Foreign Priority

I hereby claim foreign priority benefits under Title 35, United States Code Section 119 of any foreign application(s) for patent or inventor(s) certificate listed below and have also identified below any foreign application for patent or inventor(s) certificate having a filing date before that of the application on which priority is claimed:

COUNTRY	APPLICATION NUMBER	DATE FILED	PRIORITY CLAIMED UNDER 35 U.S.C. 119
			YES: NO:
			YES: NO:

Provisional Application

I hereby claim the benefit under Title 35, United States Code Section 119(e) of any United States provisional application(s) listed below:

APPLICATION SERIAL NUMBER	FILING DATE

U.S. Priority Claim

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

APPLICATION SERIAL NUMBER	FILING DATE	STATUS (patented/pending/abandoned)

PATENT APPLICATION

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION ATTORNEY DOCKET NO. ALC 3328-CON **CUSTOMER NUMBER: 30868**

Power of Attorney:

As a named inventor, I hereby appoint the attorney(s) and/or a	agent(s) under Customer Number 30868 to prosecute this
application and transact all business in the Patent and Traden	
Send correspondence to:	Direct telephone calls to:
Terry W. Kramer	
Kramer & Amado, P.C.	Terry W. Kramer
1725 Duke Street, Suite 240	(703) 519-9801
Alexandria, VA 22314	
Phone: (703) 519-9801	
Fax: (703) 519-9802	
I hereby declare that all statements made herein of my ow information and belief are believed to be true; and further the willful false statements and the like so made are punishable by 18 of the United States Code and that such willful false statem patent issued thereon.	nat these statements were made with the knowledge that fine or imprisonment, or both, under Section 1001 of Title
Full Name of Inventor:	Citizenship: <u>Canadian</u>
Residence: 48 Cecil Walden Ridge, Ottawa, Ontario,	K2K 3C6, Canada
Post Office Address: Same	
Jahran	Oct. 17/2007
Inventor's Signature	Date
Full Name of Inventor: <u>Joey Chow</u>	Citizenship: Canadian
Residence: 43 Birchview Road, Nepean, Ontario, K2G	3G3, Canada
Post Office Address: Same	
Inventor's Signature	Oct 17, 2007.
Inventor's Signature/	Date
Full Name of Inventor:	Citizenship: Canadian
Residence: 14 Morningsun Crescent, Stittsville, Ontari	o, K2S 1J6, Canada
Post Office Address: Same	
Dison Wille	_0c + 18, 200 7 Date
Inventor's Signature	Date

Date

PTO/SB/122 (11-08)
Approved for use through 11/30/2011. OMB 0551-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

ALC 3328

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CHANCE OF	Application Number	11/907,871

CHANGE OF CORRESPONDENCE ADDRESS Application Address to: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 Application Number Filling Date Filling Date Filling Date Filling Date First Named Inventor Art Unit Examiner Name Unknown 11/907,871 October 18, 2007 Application Number Filling Date Filling Date Filling Date First Named Inventor Art Unit Examiner Name Unknown

Attorney Docket Number

Please change the Correspondence Ad	ddress for the above-i	dentified patent applicatio	n to:	
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Applicant/Inventor				
Assignee of record of the entire interest. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).				
Attorney or agent of record. Registration Number 41,541				
Registered practitioner named in the application transmittal letter in an application without an executed oath or declaration. See 37 CFR 1.33(a)(1). Registration Number				
Signature Terry W, Mam	ف			
Typed or Printed Name Terry W Kramer				
Date April 17, 2009	P P P P P P P P P P P P P P P P P P P	Telephone 703 519-9801		
NOTE: Signatures of all the inventors or assignees of rec- forms if more than one signature is required, see below.	ord of the entire interest or	their representative(s) are requin	ed. Submit multiple	
*Total offorms are submitted.				

This collection of information is required by 37 CFR 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Electronic Patent Application Fee Transmittal					
Application Number:					
Filing Date:					
Title of Invention:	INC	GRESS TRAFFIC FLO	W CONTROL IN A	A DATA COMMUN	ICATIONS SYSTEM
First Named Inventor/Applicant Name:	John Madsen				
Filer:	Ter	Terry Wayne Kramer/Tara Jeffers			
Attorney Docket Number:		ALC 3328-CON			
Filed as Large Entity					
Utility under 35 USC 111(a) Filing Fees					
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:					
Utility application filing		1011	1	380	380
Utility Search Fee		1111	1	620	620
Utility Examination Fee		1311	1	250	250
Pages:					
Claims:					
Miscellaneous-Filing:					
Petition:					
Patent-Appeals-and-Interference:					

Case 6:20-cv-00497-ADA Documen Description	t 66-11 Filec Fee Code	 04/09/21 Quantity	Page 27 of 3 Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
	Tot	al in USD	(\$)	1250

Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 28 of 328				
Electronic Acknowledgement Receipt				
EFS ID:	11942524			
Application Number:	13360310			
International Application Number:				
Confirmation Number:	1373			
Title of Invention:	INGRESS TRAFFIC FLOW CONTROL IN A DATA COMMUNICATIONS SYSTEM			
First Named Inventor/Applicant Name:	John Madsen			
Customer Number:	76614			
Filer:	Terry Wayne Kramer/Tara Jeffers			
Filer Authorized By:	Terry Wayne Kramer			
Attorney Docket Number:	ALC 3328-CON			
Receipt Date:	27-JAN-2012			
Filing Date:				
Time Stamp:	17:09:10			
Application Type:	Utility under 35 USC 111(a)			
First Named Inventor/Applicant Name: Customer Number: Filer: Filer Authorized By: Attorney Docket Number: Receipt Date: Filing Date:	John Madsen 76614 Terry Wayne Kramer/Tara Jeffers Terry Wayne Kramer ALC 3328-CON 27-JAN-2012			

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The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 29 of 328 File Listing: Document File Size(Bytes)/ Multi Pages **Document Description File Name** Number **Message Digest** Part /.zip (if appl.) 902385 1 ALC332-CON_newapp.pdf 24 yes 2cbc6f150ab77025efb72f64eaf0cf0450b3e 500 Multipart Description/PDF files in .zip description **Document Description** Start End Transmittal of New Application 1 1 Fee Worksheet (SB06) 2 2 3 Application Data Sheet 6 7 Specification 15 Claims 16 19 Abstract 20 20 Drawings-only black and white line drawings 21 21 Oath or Declaration filed 22 24 Warnings: Information: 32828 2 Fee Worksheet (SB06) fee-info.pdf 2 no ad310b054d5284e6a761551cb1f9b76a629 d7eb4 Warnings: Information:

Total Files Size (in bytes):

935213

Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 30 of 328

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : John Madsen et al.

For : INGRESS TRAFFIC CONTROL IN A

DATA COMMUNICATIONS SYSTEM

Serial No.: : 13/360,310

Filed : January 27, 2012

Art Unit : TBD

Examiner : TBD

Att. Docket : ALC 3328-CON

Confirmation No. : 1373

1010

PRELIMINARY AMENDMENT

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Prior to the initial examination, please enter amendments to the specification and the claims for the above-identified application as set forth below:

SPECIFICATION AMENDMENTS begin on page 2 of this paper.

CLAIM AMENDMENTS begin on page 3 of this paper.

REMARKS/ARGUMENTS begin on page 10 of this paper.

Application No: 13/360,310 Kramer & Amado's Docket No: ALC 3328-CON

SPECIFICATION AMENDMENTS

Please add the following paragraph between the title and the first line of text as follows:

This application is a continuation of U.S. Ser. No. 11/907,871, filed October 18, 2007.

Kramer & Amado's Docket No: ALC 3328-CON

CLAIM AMENDMENTS

This listing of claims will replace all prior versions and listings of claims in

the application.

<u>Listing of Claims</u>

1-16. (Canceled)

17. (New) A method performed by a traffic flow control system for performing

flow control on a flow of data packets for transmission over a link, the method

comprising:

receiving, by a controller of the traffic flow control system, a backpressure

signal, wherein the backpressure signal indicates a period of congestion;

determining, by the controller of the traffic flow control system, at least one

weighting factor to be applied to the flow of data packets based on the received

backpressure signal; and

adjusting an amount of rate limiting applied to at least a portion of the flow

of data packets based on the determined at least one weighting factor to be applied

to the flow of data packets.

18. (New) The method of claim 17, wherein:

the step of determining at least one weighting factor comprises determining,

based on the backpressure signal, a set of weighting factors; and

the step of adjusting the amount of rate limiting comprises:

- 3 -

Kramer & Amado's Docket No: ALC 3328-CON

adjusting an amount of rate limiting with respect to a first type of data

packet traffic based on a first weighting factor of the set of weighting factors,

and

adjusting an amount of rate limiting with respect to a second type of

data packet traffic based on a second weighting factor of the set of weighting

factors.

19. (New) The method of claim 17, wherein the backpressure signal is a

backpressure message that indicates a fill level state of at least one packet queue.

20. (New) The method of claim 19, wherein the step of determining at least one

weighting factor comprises:

reading the at least one weighting factor from a mapping of various fill level

states for the at least one packet queue to various weighting factors.

21. (New) The method of claim 17, wherein the backpressure signal is received

from a downstream data processing unit.

22. (New) The method of claim 17, further comprising generating a traffic

preference message for transmission to a source of the flow of data packets, the

traffic preference message indicating a type of data packet preferred for

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transmission over the serial link in accordance with the determined at least one

weighting factor.

23. (New) The method of claim 17, wherein the contents of the backpressure

message indicates that at least one fill-level threshold for a packet queue has been

crossed.

24. (New) A traffic flow control system for controlling a flow of ingress data

packets to be transmitted over a link, the traffic flow control system comprising:

a first rate limiter configured to provide an amount of rate limiting to a first

portion of the flow of ingress data packets, the amount of rate limiting being

dependent upon a first weighting factor; and

a controller configured to:

receive a backpressure signal,

determine a first weighting factor value to be applied to the flow of

ingress data packets based on the received backpressure signal, and

adjust an amount of rate limiting applied to the first portion of the flow

of ingress data packets by adjusting the first weighting factor used by the

first rate limiter based on the determined first weighting factor value.

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25. (New) The traffic flow control system of claim 24, further comprising:

a second rate limiter configured to provide an amount of rate limiting to a second portion of the flow of ingress data packets that is different from the first

portion of the flow of ingress data packets, the amount of rate limiting of the second

rate limiter being dependent upon a second weighting factor

wherein the controller is further configured to:

determine a second weighting factor value to be applied to the flow of

ingress data packets based on the received backpressure signal, and

adjust an amount of rate limiting applied to the second portion of the

flow of ingress data packets by adjusting the second weighting factor used by

the second rate limiter based on the determined second weighting factor

value.

26. (New) The traffic flow control system of claim 24, wherein the backpressure

signal is a backpressure message that indicates a fill level state of at least one

packet queue.

27. (New) The traffic flow control system of claim 26, wherein, in determining the

first weighting factor value, the controller is configured to read the first weighting

factor value from a mapping of various fill level states for the at least one packet

queue to various weighting factor values.

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28. (New) The traffic flow control system of claim 24, wherein the controller is

further configured to generate a traffic preference message for transmission to a

source of the flow of ingress data packets, the traffic preference message indicating

a type of data packet preferred for transmission over the serial link in accordance

with the determined first weighting factor value.

29. (New) The traffic flow control system of claim 24, wherein the contents of the

backpressure message indicates that at least one fill-level threshold for a packet

queue has been crossed.

30. (New) A non-transitory machine-readable storage medium encoded with

instructions for execution by a traffic flow control system for performing flow control

on a flow of data packets for transmission over a link, the non-transitory machine-

readable storage medium comprising:

instructions for receiving, by a controller of the traffic flow control system, a

backpressure signal, wherein the backpressure signal indicates a period of

congestion;

instructions for determining, by the controller of the traffic flow control

system, at least one weighting factor to be applied to the flow of data packets based

on the received backpressure signal; and

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instructions for adjusting an amount of rate limiting applied to at least a

portion of the flow of data packets based on the determined at least one weighting

factor to be applied to the flow of data packets.

31. (New) The non-transitory machine-readable storage medium of claim 30,

wherein:

the instructions for determining at least one weighting factor comprise

instructions for determining, based on the backpressure signal, a set of weighting

factors; and

the instructions for adjusting the amount of rate limiting comprise:

instructions for adjusting an amount of rate limiting with respect to a

first type of data packet traffic based on a first weighting factor of the set of

weighting factors, and

instructions for adjusting an amount of rate limiting with respect to a

second type of data packet traffic based on a second weighting factor of the

set of weighting factors.

32. (New) The non-transitory machine-readable storage medium of claim 30,

wherein the backpressure signal is a backpressure message that indicates a fill

level state of at least one packet queue.

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33. (New) The non-transitory machine-readable storage medium of claim 32,

wherein the instructions for determining at least one weighting factor comprise:

instructions for reading the at least one weighting factor from a mapping of

various fill level states for the at least one packet queue to various weighting

factors.

34. (New) The non-transitory machine-readable storage medium of claim 30,

wherein the backpressure signal is received from a downstream data processing

unit.

35. (New) The non-transitory machine-readable storage medium of claim 30,

further comprising instructions for generating a traffic preference message for

transmission to a source of the flow of data packets, the traffic preference message

indicating a type of data packet preferred for transmission over the serial link in

accordance with the determined at least one weighting factor.

36. (New) The non-transitory machine-readable storage medium of claim 30,

wherein the contents of the backpressure message indicates that at least one fill-

level threshold for a packet queue has been crossed.

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REMARKS/ARGUMENTS

While we believe that the instant amendment places the application in condition for allowance, should the Examiner have any further comments or suggestions, it is respectfully requested that the Examiner telephone the undersigned attorney in order to expeditiously resolve any outstanding issues.

In the event that the fees submitted prove to be insufficient in connection with the filing of this paper, please charge our Deposit Account Number 50-0578 and please credit any excess fees to such Deposit Account.

Respectfully submitted, KRAMER & AMADO, P.C.

Date: <u>February 1, 2012</u>

Terry W. Kramer

Registration No.: 41,541

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Case 6:20-cv-00497-ADA Docur	nent 66-11 Filed 04/09/21 Page 41 of 328
Electronic Acl	knowledgement Receipt
EFS ID:	12005354
Application Number:	13360310
International Application Number:	
Confirmation Number:	1373
Title of Invention:	INGRESS TRAFFIC FLOW CONTROL IN A DATA COMMUNICATIONS SYSTEM
First Named Inventor/Applicant Name:	John Madsen
Customer Number:	76614
Filer:	Terry Wayne Kramer/Tara Jeffers
Filer Authorized By:	Terry Wayne Kramer
Attorney Docket Number:	ALC 3328-CON
Receipt Date:	06-FEB-2012
Filing Date:	
Time Stamp:	13:58:44
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Preliminary Amendment	ALC3328_con_prelimamendm	212170	no	10
·	Tremmary Americanent	ent.pdf	6e4c9d25c4941971312dde3f3e8a6d559a4 7963c		

Warnings:	
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Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 42 of 328 Total Files Size (in bytes): Page 42 of 328

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National Stage of an International Application under 35 U.S.C. 371

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New International Application Filed with the USPTO as a Receiving Office

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PTO/SB/06 (07-06)

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875								Docket Number 60,310		ing Date 27/2012	To be Mailed
	AF	D – PART I		SMALL	ENTITY \Box	OR		HER THAN ALL ENTITY			
	FOR	N	UMBER FIL	_ED N	NUMBER EXTRA		RATE (\$)	FEE (\$)		RATE (\$)	FEE (\$)
BASIC FEE (37 CFR 1.16(a), (b), or (c))				N/A		N/A		1	N/A		
	SEARCH FEE (37 CFR 1.16(k), (i), o		N/A		N/A		N/A			N/A	
	EXAMINATION FE (37 CFR 1.16(o), (p), o		N/A		N/A		N/A			N/A	
	ΓAL CLAIMS CFR 1.16(i))		mir	nus 20 = *			X \$ =		OR	X \$ =	
IND	EPENDENT CLAIM CFR 1.16(h))	S	m	inus 3 = *			X \$ =		1	X \$ =	
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Ш	MULTIPLE DEPEN		•	477							
* If t	the difference in colu	ımn 1 is less than	zero, ente	r "0" in column 2	2.		TOTAL			TOTAL	
	APPI	(Column 1)	AMEND	DED — PART (Column 2)	(Column 3)		SMAL	L ENTITY	OR		ER THAN ALL ENTITY
AMENDMENT	02/06/2012	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE (\$)	ADDITIONAL FEE (\$)		RATE (\$)	ADDITIONAL FEE (\$)
ME	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0		X \$ =		OR	X \$60=	0
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4ME	Application Si	ze Fee (37 CFR 1	.16(s))								
`	FIRST PRESEN	ITATION OF MULTIF	PLE DEPEN	DENT CLAIM (37	CFR 1.16(j))				OR		
							TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	0
		(Column 1)		(Column 2)	(Column 3)		•		•	'	
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Z U	Total (37 CFR 1.16(i))	*	Minus	**	=		X \$ =		OR	X \$ =	
DMENT	Independent (37 CFR 1.16(h))	*	Minus	***	=		X \$ =		OR	X \$ =	
IEN	Application Si	ze Fee (37 CFR 1	.16(s))								
Application Size Fee (37 CFR 1.16(s)) FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								OR			
							TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
** If	f the "Highest Numb	er Previously Paid er Previously Paid	For" IN TH	HIS SPACE is le HIS SPACE is le	in column 3. ss than 20, enter "20" ess than 3, enter "3". the highest number f		/STEVE	nstrument Ex N WHIBLEY/ priate box in colu		er:	

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	PAT	ENT APPL		ON FEE DE		TION RI	ECORI	D		tion or Docket Nur 0,310	nber
	APP	LICATION A	S FILE		lumn 2)		SMALL	ENTITY	OR		R THAN ENTITY
FOR NUMBER FILED NUMBER EXTRA					R EXTRA	RA1	E(\$)	FEE(\$)		RATE(\$)	FEE(\$)
	IC FEE FR 1.16(a), (b), or (c))	١	I/A	1	V/A	N	/A		1	N/A	380
	RCH FEE FR 1.16(k), (i), or (m))	١	I/A	١	V/A	N	/A			N/A	620
	MINATION FEE FR 1.16(o), (p), or (q))	١	I/A	١	V/A	N	/A			N/A	250
	AL CLAIMS FR 1.16(i))	20	minus	20= *					OR	x 60 =	0.00
	EPENDENT CLAI FR 1.16(h))	MS 3	minus	3 = *					1	x 250 =	0.00
FEE	PLICATION SIZ E CFR 1.16(s))	E sheets of \$310 (\$15 50 sheets	paper, th 5 for sm or fraction	and drawings enter application single application single entity) for eacon thereof. See YOFR 1.16(s).	ze fee due is ch additional						0.00
MUL	TIPLE DEPENDI	ENT CLAIM PRE	SENT (3	7 CFR 1.16(j))					1		0.00
* If t	he difference in c	olumn 1 is less t	nan zero,	enter "0" in colui	mn 2.	ТО	TAL		1	TOTAL	1250
	APPLIO	(Column 1)	AMENC	ED - PART I	(Column 3)		SMALL	ENTITY	OR		R THAN ENTITY
A T		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RA ⁻	ΓΕ(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
ME	Total (37 CFR 1.16(i))	*	Minus	**	=	х	=		OR	х =	
AMENDMENT	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=		OR	х =	
AM	Application Size F	ee (37 CFR 1.16(s))						1		
	FIRST PRESENTA	ATION OF MULTIP	LE DEPEN	IDENT CLAIM (37 (CFR 1.16(j))				OR		
							TAL L FEE		OR	TOTAL ADD'L FEE	
		(Column 1)	_	(Column 2)	(Column 3)				1		
NT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RA ⁻	ΓΕ(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
ME	Total (37 CFR 1.16(i))	*	Minus	**	=	х	=		OR	x =	
AMENDMENT	Independent (37 CFR 1.16(h))	*	Minus	***	=	х	=		OR	x =	
ΑM	Application Size F	ee (37 CFR 1.16(s))		•						
	FIRST PRESENTA	ATION OF MULTIP	LE DEPEN	IDENT CLAIM (37 (CFR 1.16(j))				OR		
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APPLICATION	FILING or	GRP ART				
NUMBER	371(c) DATE	UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
13/360.310	01/27/2012	2472	1250	ALC 3328-CON	20	3

CONFIRMATION NO. 1373

FILING RECEIPT

000000052452319

76614 Terry W. Kramer, Esq. Kramer & Amado, P.C. 1725 Duke Street, Suite 240 Alexandria, VA 22314

Date Mailed: 02/14/2012

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Applicant(s)

John Madsen, Ottawa, CANADA; Joey Chow, Nepean, CANADA; Dion Pike, Stittsville, CANADA;

Assignment For Published Patent Application

Alcatel-Lucent, Paris, FRANCE

Power of Attorney: The patent practitioners associated with Customer Number 30868

Domestic Priority data as claimed by applicant

This application is a CON of 11/907,871 10/18/2007

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If Required, Foreign Filing License Granted: 02/07/2012

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/360,310**

Projected Publication Date: 05/24/2012

Non-Publication Request: No

Early Publication Request: No

Title

INGRESS TRAFFIC FLOW CONTROL IN A DATA COMMUNICATIONS SYSTEM

Preliminary Class

370

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APPLICATION NUMBER FILING OR 371(C) DATE FIRST NAMED APPLICANT ATTY. DOCKET NO./TITLE

13/360,310 01/27/2012 John Madsen

ALC 3328-CON
CONFIRMATION NO. 1373

PUBLICATION NOTICE

76614 Terry W. Kramer, Esq. Kramer & Amado, P.C. 1725 Duke Street, Suite 240 Alexandria, VA 22314

Title:INGRESS TRAFFIC FLOW CONTROL IN A DATA COMMUNICATIONS SYSTEM

Publication No.US-2012-0127862-A1 Publication Date:05/24/2012

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The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

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Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 49 of 328



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/360,310	01/27/2012	John Madsen	ALC 3328-CON	1373
76614 Terry W. Kram	7590 03/28/201· er, Esq.	4	EXAM	INER
Kramer & Ama	do, P.Ĉ.		CHOUDHRY	, SAMINA F
330 John Carlyl 3rd Floor	ie Street		ART UNIT	PAPER NUMBER
Alexandria, VA	22314		2462	
			NOTIFICATION DATE	DELIVERY MODE
			03/28/2014	ELECTRONIC

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Case 6:20-cv-00497-ADA Docum	ent 66-11 Filed 04/09/21	Page 50 of	f 328
	Application No. 13/360,310	Applicant(s) MADSEN ET	
Office Action Summary	Examiner SAMINA CHOUDHRY	Art Unit 2462	AIA (First Inventor to File) Status No
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orresponden	ce address
A SHORTENED STATUTORY PERIOD FOR REPLY THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed the mailing date of D (35 U.S.C. § 133	f this communication.
Status			
1) Responsive to communication(s) filed on <u>02/06</u> A declaration(s)/affidavit(s) under 37 CFR 1.1 :			
· <u> </u>	action is non-final.		
3) An election was made by the applicant in response	·		ng the interview on
 ; the restriction requirement and election Since this application is in condition for allowan closed in accordance with the practice under E 	ice except for formal matters, pro	secution as t	to the merits is
Disposition of Claims*			
5) Claim(s) 1-36 is/are pending in the application. 5a) Of the above claim(s) is/are withdraw 6) Claim(s) is/are allowed. 7) Claim(s) 1-36 is/are rejected. 8) Claim(s) is/are objected to. 9) Claim(s) are subject to restriction and/or * If any claims have been determined allowable, you may be eliparticipating intellectual property office for the corresponding aphttp://www.uspto.gov/patents/init_events/pph/index.jsp or send	election requirement. gible to benefit from the Patent Pros eplication. For more information, plea	ase see	way program at a
Application Papers			
10) The specification is objected to by the Examiner			
11) ☐ The drawing(s) filed on <u>01/27/2012</u> is/are: a) ☐ Applicant may not request that any objection to the o			
Replacement drawing sheet(s) including the correcti			
Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign			07
Certified copies: a) All b) Some** c) None of the: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority document:	s have been received in Applicat rity documents have been receive		
application from the International Bureau ** See the attached detailed Office action for a list of the certifie			
Attachment(s)			
Notice of References Cited (PTO-892) Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/S Paper No/s)/Mail Date Paper No/s)/Mail Dat	3)		

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DETAILED ACTION

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 17-23 and 30-36 are rejected on the ground of non-statutory obviousness-type double patenting as being unpatentable over claims 1-19 of U.S. patent 8,130,649.

Although the conflicting claims are not identical, they are not patentably distinct from each other because of the following:

Regarding claim 17, U.S. patent 8,130,649 discloses:

A method performed by a traffic flow control system for performing flow control on a flow of data packets for transmission over a link (claim 1; lines 1-3; claim 8; lines 1-3), the method comprising:

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receiving, by a controller of the traffic flow control system, a backpressure signal, wherein the backpressure signal indicates a period of congestion (claim 1; lines 4-10);

determining, by the controller of the traffic flow control system, at least one weighting factor to be applied to the flow of data packets based on the received backpressure signal (claim 1; lines 11-15; claim 8; lines 11-15); and

adjusting an amount of rate limiting applied to at least a portion of the flow of data packets based on the determined at least one weighting factor to be applied to the flow of data packets (claim 1; lines 16-19; claim 8; lines 16-19).

Regarding claim 18, U.S. patent 8,130,649 discloses:

the step of determining at least one weighting factor comprises determining,

based on the backpressure signal, a set of weighting factors (claim 1; lines 11-15); and
the step of adjusting the amount of rate limiting comprises:

adjusting an amount of rate limiting with respect to a first type of data packet traffic
based on a first weighting factor of the set of weighting factors and
adjusting an amount of rate limiting with respect to a second type of data packet traffic
based on a second weighting factor of the set of weighting factors (claim 1; lines 1619).

Regarding claim 19, U.S. patent 8,130,649 discloses: the backpressure signal is a backpressure message that indicates a tilt level state of at least one packet queue (claim 4; lines 1-4).

Regarding claim 20, U.S. patent 8,130,649 discloses:

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the step of determining at least one weighting factor comprises:

reading the at least one weighting factor from a mapping of various fill level states for the at least one packet queue to various weighting factors (claim 5; lines 1-6).

Regarding claim 21, U.S. patent 8,130,649 discloses:

wherein the backpressure signal is received from a downstream data processing unit (claim 1; lines 4-5).

Regarding claim 22, U.S. patent 8,130,649 discloses:

generating a traffic preference message for transmission to a source of the flow of data packets, the traffic preference message indicating a type of data packet preferred for transmission over the serial link in accordance with the determined at least one weighting factor (claim 5; lines 1-5).

Regarding claim 23, U.S. patent 8,130,649 discloses:

the contents of the backpressure message indicates that at least one fill-level threshold for a packet queue has been crossed (claim 16; lines 1-4).

Regarding claim 30, U.S. patent 8,130,649 discloses:

instructions for receiving, by a controller of the traffic flow control system, a backpressure signal, wherein the backpressure signal indicates a period of congestion (claim 1; lines 4-10);

instructions for determining, by the controller of the traffic flow control system, at least one weighting factor to be applied to the flow of data packets based on the received backpressure signal (claim 1; lines 11-15; claim 8; lines 11-15); and

instructions for adjusting an amount of rate limiting applied to at least a portion of the flow of data packets based on the determined at least one weighting

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factor to be applied to the flow of data packets (claim 1; lines 16-19; claim 8; lines 16-19).

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Although the conflicting claims are not identical, they are not patentably distinct from each other because it is obvious to one of ordinary skilled in the art to implement the method of US 8,130,649 by using code/software/instructions stored in a non-transitory computer readable medium.

Regarding claim 31, U.S. patent 8,130,649 discloses:

the instructions for determining at least one weighting factor comprises determining, based on the backpressure signal, a set of weighting factors (claim 1; lines 11-15); and the step of adjusting the amount of rate limiting comprises: adjusting an amount of rate limiting with respect to a first type of data packet traffic based on a first weighting factor of the set of weighting factors and adjusting an amount of rate limiting with respect to a second type of data packet traffic based on a second weighting factor of the set of weighting factors (claim 1; lines 16-19).

Regarding claim 32, U.S. patent 8,130,649 discloses: the backpressure signal is a backpressure message that indicates a tilt level state of at least one packet queue (claim 4; lines 1-4).

Regarding claim 33, U.S. patent 8,130,649 discloses: instructions for reading the at least one weighting factor from a mapping of various fill level states for the at least one packet queue to various weighting factors (claim 5; lines 1-6).

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Regarding claim 34, U.S. patent 8,130,649 discloses:

wherein the backpressure signal is received from a downstream data processing unit (claim 1; lines 4-5).

Regarding claim 35, U.S. patent 8,130,649 discloses:

instructions for generating a traffic preference message for transmission to a source of the flow of data packets, the traffic preference message indicating a type of data packet preferred for

transmission over the serial link in accordance with the determined at least one weighting factor (claim 5; lines 1-5).

Regarding claim 36, U.S. patent 8,130,649 discloses:

the contents of the backpressure message indicates that at least one fill-level threshold for a packet queue has been crossed (claim 16; lines 1-4).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 17-23, and 30-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bass et al. (US 6952424) in view of Anderson et al. (US 2006/0248242).

Regarding claims 17 and 30, Bass discloses a method performed by a traffic flow control system /a non-transitory machine readable storage encoded with instructions by a traffic flow control system (Col. 2; lines 16-27) for performing flow control on a flow of data packets for transmission over a link (Col. 1; lines 65-67; The present invention includes an improved system and method for scheduling the distribution of information units from a flow control system coupled to a plurality of network processing units toward a data transmission network through a MAC), the method comprising:

receiving, by a controller of the traffic flow control system, a backpressure signal (Col. 8; lines 48-50; a backpressure is sent to the transmitter preventing frames from being sent out that the system cannot handle);

determining, by the controller of the traffic flow control system, at least one weighting factor to be applied to the flow of data packets based on the received backpressure signal (Col. 7; lines 46-57; claim 2; providing a back pressure indicator signal to said weighted fair calendar when an output queue associated with said weighted fair calendar is not empty, preventing that output queue from being selected during the time cycle); and adjusting an amount of rate limiting applied to at least a portion of the flow of data packets based on the determined at least one weighting factor to be applied to the flow of data packets (Col. 7; lines 46-50; claim 2 and 6; providing a back pressure indicator

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signal to said weighted fair calendar when an output queue associated with said weighted fair calendar is not empty, preventing that output queue from being selected during the time cycle and the back pressure controller includes at least one port queue and a threshold that limits the amount of information unit to be accommodated in said queue).

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Bass does not explicitly disclose that the backpressure signal indicates a period of congestion.

In an analogous art, Anderson discloses that the backpressure signal indicates a period of congestion (¶ 22). It would have been obvious to one of ordinary skill in the art at the time of invention was made to modify Bass's method by adding the limitation of Anderson in order to improve network performance by reducing network congestion.

Regarding claims 18 and 31, Bass does not explicitly disclose:

the step of determining at least one weighting factor comprises determining, based on the backpressure signal, a set of weighting factors (Col. 9; lines 25-39).

Bass does not explicitly disclose that the step of adjusting the amount of rate limiting comprises:

adjusting an amount of rate limiting with respect to a first type of data packet traffic based on a first weighting factor of the set of weighting factors and adjusting an amount of rate limiting with respect to a second type of data packet traffic based on a second weighting factor of the set of weighting factors.

In an analogous art, Anderson discloses that the step of adjusting the amount of rate limiting comprises:

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adjusting an amount of rate limiting with respect to a first type of data packet traffic based on a first weighting factor of the set of weighting factors and adjusting an amount of rate limiting with respect to a second type of data packet traffic based on a second weighting factor of the set of weighting factors (¶ 22; Ingress backpressure mechanism uses packet or cell counters to track the number of packets or cells used on an ingress port basis. Ingress mechanism includes registers for a set of 8 individually configurable thresholds and registers used to specify which of the 8 thresholds are to be used for every ingress port in the system. The set of thresholds include a limit threshold, a discard limit threshold and a reset limit threshold 316). It would have been obvious to one of ordinary skill in the art at the time of invention was made to modify Bass's method by adding the limitation of Anderson in order to dynamically manage different queues based on their fill level.

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Regarding claims 19 and 32, Bass discloses that the backpressure signal is a backpressure message that indicates a tilt level state of at least one packet queue (Abstract and Col. 7; lines 46-50; A "back pressure" system keeps a flow from being selected if its output cannot accept an additional frame because the current level of that port queue exceeds a threshold. This system provides a form of back pressure to limit the output, preventing frames from being sent out that the system cannot handle).

Regarding claims 20 and 33, Bass does not explicitly disclose reading the at least one weighting factor from a mapping of various fill level states for the at least one packet queue to various weighting factors.

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In an analogous art, Anderson discloses reading the at least one weighting factor from a mapping of various fill level states for the at least one packet queue to various weighting factors (¶ 22; The set of thresholds include a limit threshold, a discard limit threshold and a reset limit threshold). It would have been obvious to one of ordinary skill in the art at the time of invention was made to modify Bass's method by adding the limitation of Anderson in order to dynamically manage different queues based on their fill level.

Regarding claims 21 and 34, Bass does not explicitly disclose that the backpressure signal is received from a downstream data processing unit.

In an analogous art, Anderson discloses that the backpressure signal is received from a downstream data processing unit (¶ 21; ingress backpressure mechanism). It would have been obvious to one of ordinary skill in the art at the time of invention was made to modify Bass's method by adding the limitation of Anderson in order to improve the flow control based on the capacity utilization level of the receiver.

Regarding claims 22 and35, Bass discloses generating a traffic preference message for transmission to a source of the flow of data packets, the traffic preference message indicating a type of data packet preferred for transmission over the serial link in accordance with the determined at least one weighting factor (Col. 8; lines 41-60; Each of the WFQ calendars is associated with a pair of ports; thus, WFQ Port 0 is associated with a higher priority port 0 and a lower priority port 0. If the target port queue's threshold has been exceeded, no further action is taken by that WFQ calendar during the scheduler.sub.— tick. (This system provides a form of back pressure to limit the output, preventing frames from being sent out that the system cannot handle.) If

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the target port queue's threshold has not been exceeded, the slot that is indicated by the current pointer is then examined. If the slot is found to be empty, then the current pointer may advance to the next non-empty slot to find a flow queue WFQ candidate. If all slots are found to be empty, the current pointer is unchanged and no candidate is found. If the slot is found to be non-empty within this one calendar, then the flow queue address in stored in the slot is the WFQ candidate for this port. Each of the WFQ calendars will similarly be able to find a candidate for its associated target port queue.

Regarding claims 23 and 36, Bass discloses that the contents of the backpressure message indicates that at least one fill-level threshold for a packet queue has been crossed (Abstract; A "back pressure" system keeps a flow from being selected if its output cannot accept an additional frame because the current level of that port queue exceeds a threshold).

5. Claims 24-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bass et al. (US 6952424) in view of Khotimsky et al. (US 6788686).

Regarding claim 24, Bass discloses a traffic flow control system for controlling a flow of ingress data packets to be transmitted over a link (Col. 1; lines 65-67; The present invention includes an improved system and method for scheduling the distribution of information units from a flow control system coupled to a plurality of network processing units toward a data transmission network through a MAC), the traffic flow control system comprising:

a first rate limiter configured to provide an amount of rate limiting to a flow queue ingress data packets, the amount of rate limiting being dependent upon a first

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weighting factor (Col. 3; lines 32-36; Col. 6; line 63... Col. 7, line 7); and a controller configured to (claim 6; controller): receive a backpressure signal (Col. 8; lines 48-50; a backpressure is sent to the transmitter preventing frames from being sent out that the system cannot handle) determine a first weighting factor value to be applied to the flow of ingress data packets based on the received backpressure signal (Col. 8; lines 45-50; claim 2; providing a back pressure indicator signal to said weighted fair calendar when an output queue associated with said weighted fair calendar is not empty, preventing that output queue from being selected during the time cycle), and adjust an amount of rate limiting applied to the first portion of the flow of ingress data packets by adjusting the first weighting factor used by the first rate limiter based on the

Bass does not explicitly disclose that the flow queue is a first portion of the flow.

determined first weighting factor value (Col. 8; lines 40-50; claim 4; Col. 9; lines 48-57).

In an analogous art, Khotimsky discloses that the flow queue is a first portion of the flow (Col. 4; lines 11-25; flow is split into different portions and the flow is controlled for each portion). It would have been obvious to one of ordinary skill in the art at the time of invention was made to modify Bass's method by adding the limitation of Khotimsky in order to dynamically manage different portions of flows based on their corresponding egress buffer fill level.

Regarding claim 25, Bass discloses a traffic flow control system for controlling a flow of ingress data packets to be transmitted over a link (Col. 1; lines 65-67; The present invention includes an improved system and method for scheduling the

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distribution of information units from a flow control system coupled to a plurality of network processing units toward a data transmission network through a MAC), the traffic flow control system comprising:

a second rate limiter configured to provide an amount of rate limiting to a flow queue ingress data packets, the amount of rate limiting being dependent upon a first weighting factor (Col. 3; lines 32-36; Col. 6; line 63... Col. 7, line 7); and a controller configured to (claim 6; controller):

receive a backpressure signal (Col. 8; lines 48-50; a backpressure is sent to the transmitter preventing frames from being sent out that the system cannot handle) determine a first weighting factor value to be applied to the flow of ingress data packets based on the received backpressure signal (Col. 8; lines 45-50; claim 2; providing a back pressure indicator signal to said weighted fair calendar when an output queue associated with said weighted fair calendar is not empty, preventing that output queue from being selected during the time cycle), and adjust an amount of rate limiting applied to the first portion of the flow of ingress data packets by adjusting the first weighting factor used by the first rate limiter based on the determined first weighting factor value (Col. 8; lines 40-50; claim 4; Col. 9; lines 48-57).

Bass does not explicitly disclose that the flow queue is a second portion of the flow.

In an analogous art, Khotimsky discloses that the flow queue is a second portion of the flow (Col. 4; lines 11-25; flow is split into different portions and the flow is controlled for each portion). It would have been obvious to one of ordinary skill in the art at the time of invention was made to modify Bass's method by adding

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the limitation of Khotimsky in order to dynamically manage different portions of flows based on their corresponding egress buffer fill level.

Regarding claim 26, Bass discloses that the backpressure signal is a backpressure message that indicates a tilt level state of at least one packet queue (Abstract and Col. 7; lines 46-50; A "back pressure" system keeps a flow from being selected if its output cannot accept an additional frame because the current level of that port queue exceeds a threshold. This system provides a form of back pressure to limit the output, preventing frames from being sent out that the system cannot handle).

Regarding claim 27, Bass further discloses that in determining the first weighting factor value, the controller is configured to read the first weighting factor value from a mapping of various fill level states for the at least one packet queue to various weighting factor values (Col. 7; lines 46-50; claim 2 and 6; providing a back_pressure indicator signal to said weighted fair calendar when an output queue associated with said weighted fair calendar is not empty, preventing that output queue from being selected during the time cycle and the back pressure controller includes at least one port queue and a threshold that limits the amount of information unit to be accommodated in said queue)

Regarding claim 28, Bass further discloses that the controller is further configured to generate a traffic preference message for transmission to a source of the flow of ingress data packets (Col. 9; lines 11-14), the traffic preference message indicating a type of data packet preferred for transmission over the serial link in accordance with the determined first weighting factor value (Col. 9; lines 11-24).

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Regarding claims 29, Bass discloses that the contents of the backpressure message indicates that at least one fill-level threshold for a packet queue has been crossed (Abstract; A "back pressure" system keeps a flow from being selected if its output cannot accept an additional frame because the current level of that port queue exceeds a threshold).

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to SAMINA CHOUDHRY whose telephone number is (571)270-7102. The examiner can normally be reached on Monday to Thursday (7:30 a.m. to 5.00p.m.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yemane Mesfin can be reached on (571)272-3927. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the

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automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/SAMINA CHOUDHRY/

Examiner, Art Unit 2462

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					Application/C	Control No.	Applicant(s)/Pate Reexamination	ent Under	
		Notice of Reference	s Cited		13/360,310		MADSEN ET AL.		
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					SAMINA CH	OUDHRY	2462	Page 1 of 1	
				U.S. P	ATENT DOCUM	ENTS			
*		Document Number Country Code-Number-Kind Code	Date MM-YYYY			Name		Classification	
*	Α	US-6,788,686 B1	09-2004	Khotim:	sky et al.			370/394	
*	В	US-6,952,424 B1	10-2005	Bass et	al.			370/412	
*	O	US-2006/0248242 A1	11-2006	Anders	en et al.			710/052	
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^{*}A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

EAST Search History

EAST Search History (Prior Art)

Ref #	ef Hits Search Query		DBs	Default Operator	Plurals	Time Stamp
S1	8990	(back pressure or paus\$3 or halt\$3 or stop\$4) same (congestion or congest\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 17:55
S2	874	(back pressure or paus\$3 or halt\$3 or stop\$4) same (congestion or congest\$3) same (flow near2 control\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 17:55
S3	411	(back pressure or paus\$3 or halt\$3 or stop\$4) with (congestion or congest\$3) with (flow near2 control\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 17:56
S4	88734	(back pressure or paus\$3 or halt\$3 or stop\$4) with (weigh\$3 or weight)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 17:56
S5	3	S3 and (back pressure or paus\$3 or halt\$3 or stop\$4) with (weigh\$3 or weight)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 17:56
S6	3	S3 and ((back pressure or paus\$3 or halt\$3 or stop\$4) with (weigh\$3 or weight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 17:57
S7	1	"13360310"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 17:58
S8	2	"6570848".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 18:03
S9	4	"6031821".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 18:03
S10	6	S8 or S9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 18:03

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S11	2	S10 and (weigh\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 18:04
S12	4	S3 and (back pressure or paus\$3 or halt\$3 or stop\$4) with (weigh\$3 or weight or proportion)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 18:04
S13	1	S12 not S6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 18:04
S14	10	S3 and (back pressure or paus\$3 or halt\$3 or stop\$4) with (weigh\$3 or weight or proportion or percentage or percent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 18:05
S15	2	"6170022".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 18:20
S17	1	S15 and (percent or percentage or pause)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 18:21
S18	1	S15 and (percent\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 18:21
S19	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 21:22
\$20	75	"6788686"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 21:22
\$21	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 21:22
S22	5	S19 or S21	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 21:22
\$23	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 21:29

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	2	\$22 and (backpressure or back pressure or paus\$3 or halt\$3 or stop\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 21:29
S25	2	S24 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 21:30
S26	3	"20130132573"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 21:58
S27	1	S26 and (embed\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 21:58
S28	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 13:59
S29	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 13:59
S30	5	♡8 or ♡9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 13:59
S31	3	S30 and (flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 13:59
S32	3	S30 and (flow or (backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 14:05
S33	3	S30 and (flow or (backpressure or back pressure) or (weigh\$3 or weight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 14:20
S34	1	S30 and ((backpressure or back pressure or paus\$3 or halt\$3) with (weigh\$3 or weight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 14:43
\$35	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:34

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S36		S35 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:34
S37	1	S35 and ((weight or weigh\$3) with (back pressure or halt or paus\$3 or stop\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:34
S38	1	S35 and ((weight or weigh\$3) and (back pressure or halt or paus\$3 or stop\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:35
S39	2	"6967923".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:37
S41	1	S39 and (weight\$3 or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:38
S42	2	S30 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:41
S43	1	\$30 and ((weight or weigh\$3) with (paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:43
S44	1	\$30 and ((weight or weigh\$3) same (paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:44
S45	301379	((weight or weigh\$3) same (paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:46
S46	89069	((weight or weigh\$3)with (paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:47
S47	4471	S46 and (flow near2 control)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:47
S48	1571	S47 and ((adjust\$3 or chang\$3 or modif\$5) with (weight or weigh\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:48

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S49	42	S47 and ((adjust\$3 or chang\$3 or modif\$5) with (weight or weigh\$3) with (back pressure or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:49
S50	48	S47 and ((adjust\$3 or chang\$3 or modif\$5) with (weight or weigh\$3) with (back pressure or backpressure or paus\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:49
S51	434	S47 and ((adjust\$3 or chang\$3 or modif\$5) with (weight or weigh\$3) with (back pressure or backpressure or paus\$3 or halt\$3 or stop\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:49
S52	1	"13360310"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:50
S53	3	S50 and (network)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:52
S54	65	S51 and (network)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:52
S55	20	S51 and (network and (packet or frame))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:53
S56	21498	(network and (weight or weigh\$3) same (paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:55
S57	441	(network and (weight or weigh\$3) with (paus\$3 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:56
S58	24	S57 and (network with (flow near2 control\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:57
S59	153	S57 and ((flow near2 control\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:57
S60	3	"20060187945"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:38

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	2	S60 and (weight\$3 or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:38
S62	2	"20040257997"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:41
S63	2	S62 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:41
S64	1	S62 and ((weight or weigh\$3) with (backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:42
S65	14	"7701957".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:44
S66	2	S65 and (backpressure or back pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:45
S67	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:46
S68	1	S67 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:46
S69	1	S67 and (weight or weigh\$3 or back prssure or pause or backpressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:47
S70	1	S67 and (weight or weigh\$3 or back prssure or pause or backpressure or halt or stop\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:48
S73	1	S67 and (back)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:52
S74	1	S67 and (flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 18:17

Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 73 of 328 2014/03/23 S75 1 S67 and (flow and back) US-PGPUB: USPAT; USOCR; 18:23 FPRS; EPO; JPO; DERWENT; IBM_TDB S76 1 S67 and (paus\$3 or stop\$4 or US-PGPUB: ADJ ON 2014/03/23 halt\$3 or back) USPAT; USOCR; 18:24 FPRS; EPO; JPO; DERWENT; IBM_TDB S77 5 "20020091527" US-PGPUB: ADJ ON 2014/03/23 18:53 USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB S78 13 "6788686".pn. US-PGPUB: ADJ ON 2014/03/23 USPAT; USOCR; 20:17 FPRS; EPO; JPO; DERWENT; IBM_TDB ADJ S79 S78 and (congest\$5) US-PGPUB; ON 2014/03/23 USPAT; USOCR; 20:17 FPRS; EPO; JPO; DERWENT; IBM TDB S84 1 S78 and ((back pressure or US-PGPUB: ADJ ON 2014/03/23 pause or halt\$3 or stop\$4 or USPAT; USOCR; 20:19 FPRS; EPO; JPO; backpressure)) DERWENT; IBM_TDB S85 1 S78 and (congest\$5 and (back US-PGPUB: ADJ ON 2014/03/23 pressure or pause or halt\$3 or USPAT; USOCR; 20:19 stop\$4 or backpressure)) FPRS; EPO; JPO; DERWENT; IBM TDB S86 2 '6324165".pn. US-PGPUB: ADJ ON 2014/03/23 USPAT; USOCR; 20:20 FPRS; EPO; JPO; DERWENT; IBM_TDB S87 1 S86 and (congest\$5) US-PGPUB; ADJ ON 2014/03/23 USPAT; USOCR; 20:21 FPRS; EPO; JPO; DERWENT; IBM TDB S88 1 ADJ ON S86 and (congest\$5 and (back US-PGPUB; 2014/03/23 pressure or pause or halt\$3 or USPAT; USOCR; 20:32 stop\$4 or backpressure)) FPRS; EPO; JPO;

> DERWENT; IBM TDB

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 09:16
L2	1	L1 and (Flow or pause or stop\$3 or halt\$3 or backpressure or back pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 09:16
L3	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 09:35
L4	1	3 and (weight or weigh\$3) US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB		2014/03/24 09:35		
L5	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 09:36
L6	1	5 and ((weight or weigh\$3) with (back pressure or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 09:36
L7	1	5 and ((weight or weigh\$3) and (back pressure or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 09:37
L11	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 10:10
L12	1	L11 and (indicator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 10:10
L13	1	1 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 10:18

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S1	8990	(back pressure or paus\$3 or halt\$3 or stop\$4) same (congestion or congest\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 17:55
S2	874	(back pressure or paus\$3 or halt\$3 or stop\$4) same (congestion or congest\$3) same (flow near2 control\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 17:55
S 3	411	(back pressure or paus\$3 or halt\$3 or stop\$4) with (congestion or congest\$3) with (flow near2 control\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 17:56
S4	88734	(back pressure or paus\$3 or halt\$3 or stop\$4) with (weigh\$3 or weight)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 17:56
S5	3	S3 and (back pressure or paus\$3 or halt\$3 or stop\$4) with (weigh\$3 or weight)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 17:56
S6	3	S3 and ((back pressure or paus\$3 or halt\$3 or stop\$4) with (weigh\$3 or weight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 17:57
S7	1	"13360310"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 17:58
S8	2	"6570848".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 18:03
S9	4	"6031821".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 18:03
S10	6	S8 or S9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 18:03
S11	2	S10 and (weigh\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 18:04
S12	4	S3 and (back pressure or paus\$3 or halt\$3 or stop\$4) with (weigh\$3 or weight or proportion)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 18:04

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S13	1	S12 not S6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 18:04
S14	10	S3 and (back pressure or paus\$3 or halt\$3 or stop\$4) with (weigh\$3 or weight or proportion or percentage or percent)	USPAT; USOCR;	ADJ	ON	2014/03/22 18:05
S15	2	"6170022".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 18:20
S17	1	S15 and (percent or percentage or pause)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 18:21
S18	1	S15 and (percent\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 18:21
S19	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 21:22
S20	75	"6788686"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 21:22
S21	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 21:22
S22	5	S19 or S21	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 21:22
S23	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 21:29
S24	2	S22 and (backpressure or back pressure or paus\$3 or halt\$3 or stop\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 21:29
S25	2	S24 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 21:30

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S26	3	"20130132573"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 21:58
S27	1	\$26 and (embed\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 21:58
S28	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 13:59
S29	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 13:59
S30	5	조8 or 조9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 13:59
S31	3	S30 and (flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 13:59
S32	3	S30 and (flow or (backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 14:05
S33	3	S30 and (flow or (backpressure or back pressure) or (weigh\$3 or weight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 14:20
S34	1	S30 and ((backpressure or back pressure or paus\$3 or halt\$3) with (weigh\$3 or weight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 14:43
S35	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:34
S36	1	S35 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:34
S37	1	S35 and ((weight or weigh\$3) with (back pressure or halt or paus\$3 or stop\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:34

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S38	1	S35 and ((weight or weigh\$3) and (back pressure or halt or paus\$3 or stop\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:35
S39	2	"6967923".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:37
S41	1	S39 and (weight\$3 or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:38
S42	2	S30 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:41
S43	1	\$30 and ((weight or weigh\$3) with (paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:43
S44	1	S30 and ((weight or weigh\$3) same (paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:44
S45	301379	((weight or weigh\$3) same (paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:46
S46	89069	((weight or weigh\$3)with (paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:47
S47	4471	S46 and (flow near2 control)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:47
S48	1571	S47 and ((adjust\$3 or chang\$3 or modif\$5) with (weight or weigh\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:48
S49	42	S47 and ((adjust\$3 or chang\$3 or modif\$5) with (weight or weigh\$3) with (back pressure or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:49
S50	48	S47 and ((adjust\$3 or chang\$3 or modif\$5) with (weight or weigh\$3) with (back pressure or backpressure or paus\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; [BM_TDB	ADJ	ON	2014/03/23 15:49

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Ci	ase 6:20	0-cv-00497-ADA Document	: 66-11 Filed 0	4/09/21	Page 79	of 328
S51	434	or modif\$5) with (weight or weigh\$3) with (back pressure or backpressure or paus\$3 or halt\$3 or stop\$4))	IBM_TDB	ADJ	ON	2014/03/23 15:49
S52	1	"13360310"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:50
S53	3	S50 and (network)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:52
S54	65	S51 and (network)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:52
S55	20	\$51 and (network and (packet or frame))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:53
S56	21498	(network and (weight or weigh\$3) same (paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:55
S57	441	(network and (weight or weigh\$3) with (paus\$3 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:56
S58	24	\$57 and (network with (flow near2 control\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:57
S59	153	S57 and ((flow near2 control\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:57
S60	3	"20060187945"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:38
S61	2	S60 and (weight\$3 or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:38
S62	2	"20040257997"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:41

		0-cv-00497-ADA Documen				of 328
S63	2	S62 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:41
S64	1	S62 and ((weight or weigh\$3) with (backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:42
S65	14	"7701957".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:44
S66	2	S65 and (backpressure or back pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:45
S67	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:46
S68	1	S67 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:46
S69	1	S67 and (weight or weigh\$3 or back prssure or pause or backpressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:47
S70	1	S67 and (weight or weigh\$3 or back prssure or pause or backpressure or halt or stop\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:48
S73	1	S67 and (back)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:52
S74	1	S67 and (flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 18:17
S75	1	S67 and (flow and back)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 18:23
S76	1	S67 and (paus\$3 or stop\$4 or halt\$3 or back)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 18:24

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S77	5	"20020091527"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 18:53
S78	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 20:17
S79	1	S78 and (congest\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 20:17
S84	1	S78 and ((back pressure or pause or halt\$3 or stop\$4 or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 20:19
S85	1	S78 and (congest\$5 and (back pressure or pause or halt\$3 or stop\$4 or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 20:19
S86	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 20:20
S87	1	S86 and (congest\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 20:21
S88	1	S86 and (congest\$5 and (back pressure or pause or halt\$3 or stop\$4 or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 20:32
S89	13	"7802028".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 00:37
S90	1	S89 and (congest\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 00:37
S91	1	S89 and (congest\$4 same (stop\$3 or paus\$3 or stop\$4 or halt\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 00:38
S92	3	"20060248242"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 00:40

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	2	S92 and (congestion same pause)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 00:40
S94	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 00:46
S95	1	S94 and (weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 00:47
S96	1	S94 and (weigh\$3 and (pause or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 00:48
S97	2	S92 and (backpressure or back pressure or halt\$3 or stop\$4 or pause)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 01:07
S98	2	S92 and ((backpressure or back pressure or halt\$3 or stop\$4 or pause) and (weigh\$3 or weight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 01:15
S99	2	S92 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 01:25
S100	1	S94 and ((pause or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 01:29
S101	2	S94 and (threshold or level or limit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 01:59

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BIB DATA SHEET

CONFIRMATION NO. 1373

SERIAL NUM	IBER	FILING OI			CLASS	GR	OUP ART	UNIT	ATTO	RNEY DOCKET
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APPLICANT	S									
Joey Cho	dsen, O	ttawa, CANA ean, CANAD rille, CANADA	Α;							
** CONTINUING DATA ****************************** This application is a CON of 11/907,871 10/18/2007 PAT 8130649 ** FOREIGN APPLICATIONS ************************************										
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** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 02/07/2012										
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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	38	flow with control with ((queu\$3 or buffer?) with (weight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 12:39
L2	5	backpressure same (queues with weight)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 12:39
L3	1100	backpressure same (queues or buffer? or memory)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 12:39
L4	455	(priorit\$3)) USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB		ON	2014/03/24 12:39	
L5	42	L4 and (weight same (priorit\$3 or type of QOS or COS or level))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 12:39
L6	76	back?pressure with (receiver)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 12:39
L7	12	L6 and (queu\$2 with (priorit\$2 or QOS or COS or level))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 12:39
L8	519	((flow control) and (weight\$3 with (factors or crieteria or metrics) with rate))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	ADJ	ON	2014/03/24 12:39
L9	5	((flow control) and (weight\$3 with (factors or crieteria or metrics) with rate with queues))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 12:39
L10	9	((flow control) and (weight\$3 with (factors or crieteria or metrics) with rate same queues))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 12:39
L11	4	L10 not L9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 12:39
L12	99	L8 and (determin\$3 with (weight\$3 with (factors or criteria)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 12:39

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L13	92	L12 not L10	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 12:39
L14	2	"7292578".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 12:39
L15	6	"7006440".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 12:39
L16	2	"5704047".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB	ADJ	ON	2014/03/24 12:39
L17	2	"6967923".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB	ADJ	ON	2014/03/24 12:39
L18	3	"20050271076"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	ADJ	ON	2014/03/24 12:39

3/24/2014 12:40:00 PM

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Search Notes



Application/Control No.	Applicant(s)/Patent Under Reexamination
13360310	MADSEN ET AL.
Examiner	Art Unit
SAMINA CHOUDHRY	2462

CPC- SEARCHED		
Symbol	Date	Examiner
H04L 47/10	3/20/2014	SC

CPC COMBINATION SETS - SEARCHED				
Symbol	Date	Examiner		
H04L 5/0053, H04L 12/5602, H04L 2012/5636	03/20/2014	SC		

US CLASSIFICATION SEARCHED				
Class	Subclass	Date	Examiner	
		03/19/2014		

SEARCH NOTES		
Search Notes	Date	Examiner
EAST search with all databases		
keyword search	03/19/2014	SC
370/235,229,464,465,468	03/19/2014	SC
Assignee and Inventorship Search done	03/19/2014	SC

	INTERFERENCE SEARCH		
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
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U.S. Patent and Trademark Office Part of Paper No.: 20140311

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 09:16
L2	1	L1 and (Flow or pause or stop\$3 or halt\$3 or backpressure or back pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 09:16
L3	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 09:35
L4	1	3 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 09:35
L5	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 09:36
L6	1	5 and ((weight or weigh\$3) with (back pressure or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 09:36
L7	1	5 and ((weight or weigh\$3) and ((back pressure or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 09:37
L11	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 10:10
L12	1	L11 and (indicator)	US-PGPUB; USPAT;	A DJ	ON	2014/03/24 10:10

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
L13	1	1 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 10:18
L14	1	1 and (control\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 10:24
L15	3	"20060248242"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 10:28
L16	2	15 and (control\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 10:28
L17	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 10:29
L18	1	17 and (controller)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 10:29
L20	1	3 and (controller with pause or stop\$3 or halt\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 10:31
L21	1	3 and (controller with pause or stop\$3 or halt\$3 or back pressure or backpressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 10:32
L22	1	5 and (controller with pause or stop\$3 or halt\$3 or back pressure or backpressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 10:34
L23	1	3 and (controller with pause or stop\$3 or halt\$3 or back pressure	US-PGPUB; USPAT;	ADJ	ON	2014/03/24 10:36

Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 89 of 328 USOCR; FPRS; or backpressure) EPO; JPO; DERWENT; IBM_TDB L24 ADJ ON 5 and (portion or part) US-PGPUB: 2014/03/24 USPAT; 10:42 USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB L25 1 and (portion) US-PGPUB; ADJ ON 2014/03/24 USPAT; 10:42 USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB L26 US-PGPUB; ON "11907871" ADJ 2014/03/24 USPAT; 11:15 USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB US-PGPUB; L27 ON '8130649".pn. ADJ 2014/03/24 USPAT; 11:24 USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB L28 2 27 and (set near2 weigh\$4) US-PGPUB: ADJ ON 2014/03/24 USPAT; 11:24 USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB L29 27 and (set near2 weigh\$4).clm. US-PGPUB; ADJ ON 2014/03/24 USPAT; 11:24 USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB 27 and (cross\$3 or threshold).clm. US-PGPUB; ADJ ON 2014/03/24 L31 USPAT: 11:39 USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB L35 US-PGPUB; "13360310" ADJ ON 2014/03/24 USPAT; 11:57 USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB US-PGPUB; L36 35 and (control\$4) ADJ ON 2014/03/24 USPAT; 11:57 USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB US-PGPUB; L37 36656 h04l47/10.cpc. ADJ ON 2014/03/24 USPAT; 12:11

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
L38	5399	h04l12/5602.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 12:11
L39	2846	h04l2012/5636.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 12:11
L40	15822	h04l5/0053.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 12:11
L41	58005	37 or 38 or 39 or 40	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 12:12
L42	33	41 and ((weight or weigh\$3) with (paus or halt\$3 or stop\$4 or back pressure or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 12:15
L43	37	41 and ((weight or weigh\$3) with (pause or halt\$3 or stop\$4 or back pressure or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 12:25
L44	117	41 and ((weight or weigh\$3) same (pause or halt\$3 or stop\$4 or back pressure or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	ADJ	ON	2014/03/24 12:25
L45	72	44 and (network with flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 12:26
L46	41397	370/329,335,464,465,468.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 12:28
L47	6697	46 and (pause or halt\$3 or stop\$4 or back pressure or backpressure)	US-PGPUB; USPAT;	ADJ	ON	2014/03/24 12:28

Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 91 of 328 USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB 22 ADJ ON L48 46 and ((weight or weigh\$3) with US-PGPUB: 2014/03/24 (pause or halt\$3 or stop\$4 or back USPAT; 12:29 USOCR; FPRS; pressure or backpressure)) EPO; JPO; DERWENT; IBM TDB US-PGPUB; L49 2 45 and 48 ADJ ON 2014/03/24 USPAT; 12:29 USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB L50 US-PGPUB; ON20 48 not 49 ADJ 2014/03/24 USPAT; 12:29 USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB US-PGPUB; L51 ON 2 50 and (network with flow) ADJ 2014/03/24 USPAT; 12:30 USOCR; FPRS; EPO; JPO; DERWENT: IBM TDB 12 L52 50 and (network and flow) US-PGPUB: ADJ ON 2014/03/24 USPAT; 12:30 USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB S1 8990 (back pressure or paus\$3 or halt\$3 US-PGPUB; ADJ ON 2014/03/22 or stop\$4) same (congestion or USPAT; 17:55 congest\$3) USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB S2 874 (back pressure or paus\$3 or halt\$3 US-PGPUB; ADJ ON 2014/03/22 or stop\$4) same (congestion or USPAT: 17:55 congest\$3) same (flow near2 USOCR; FPRS; EPO; JPO; control\$3) DERWENT; IBM TDB 2014/03/22 S3 411 US-PGPUB: ADJ (back pressure or paus\$3 or halt\$3 ON or stop\$4) with (congestion or USPAT; 17:56 USOCR; FPRS; congest\$3) with (flow near2 control\$3) EPO; JPO; DERWENT; IBM_TDB (back pressure or paus\$3 or halt\$3 US-PGPUB; **S4** 88734 ADJ ON 2014/03/22 or stop\$4) with (weigh\$3 or USPAT; 17:56 weight) USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB S3 and (back pressure or paus\$3 or US-PGPUB; S5 3 ADJ ON 2014/03/22 halt\$3 or stop\$4) with (weigh\$3 or USPAT; 17:56

	ase 0.2	0-cv-00497-ADA Document 6		4/U3/ZI	raye 92	. UI 3 28
		weight)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S6	3	S3 and ((back pressure or paus\$3 or halt\$3 or stop\$4) with (weigh\$3 or weight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 17:57
S7	1	"13360310"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 17:58
S8	2	"6570848".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 18:03
S 9	4	"6031821".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 18:03
S10	6	S8 or S9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 18:03
S11	2	S10 and (weigh\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	ADJ	ON	2014/03/22 18:04
S12	4	S3 and (back pressure or paus\$3 or halt\$3 or stop\$4) with (weigh\$3 or weight or proportion)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 18:04
S13	1	S12 not S6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 18:04
S14	10	S3 and (back pressure or paus\$3 or halt\$3 or stop\$4) with (weigh\$3 or weight or proportion or percentage or percent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 18:05
S15	2	"6170022".pn.	US-PGPUB; USPAT;	ADJ	ON	2014/03/22 18:20

C	ase 6:2	0-cv-00497-ADA Document 6			Page 93	of 328
			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S17	1	S15 and (percent or percentage or pause)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 18:21
S18	1	S15 and (percent\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 18:21
S19	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 21:22
S20	75	"6788686"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 21:22
S21	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 21:22
S22	5	S19 or S21	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 21:22
S23	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 21:29
S24	2	S22 and (backpressure or back pressure or paus\$3 or halt\$3 or stop\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 21:29
S25	2	S24 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 21:30
S26	3	"20130132573"	US-PGPUB; USPAT;	ADJ	ON	2014/03/22 21:58

C	ase 6:2	0-cv-00497-ADA Document 6	6-11 Filed 0	4/09/21	Page 94	of 328
			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S27	1	\$26 and (embed\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/22 21:58
S28	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 13:59
S29	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 13:59
S30	5	S28 or S29	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 13:59
S31	3	S30 and (flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 13:59
S32	3	S30 and (flow or (backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 14:05
S33	3	S30 and (flow or (backpressure or back pressure) or (weigh\$3 or weight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 14:20
S34	1	S30 and ((backpressure or back pressure or paus\$3 or halt\$3) with (weigh\$3 or weight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 14:43
S 35	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:34
S36	1	S35 and (weight or weigh\$3)	US-PGPUB; USPAT;	ADJ	ON	2014/03/23 15:34

Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 95 of 328 USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB S37 ADJ ON S35 and ((weight or weigh\$3) with US-PGPUB: 2014/03/23 (back pressure or halt or paus\$3 or USPAT; 15:34 USOCR; FPRS; stop\$4)) EPO; JPO; DERWENT; IBM TDB US-PGPUB; S38 S35 and ((weight or weigh\$3) and ADJ ON 2014/03/23 USPAT; 15:35 (back pressure or halt or paus\$3 or USOCR; FPRS; stop\$4)) EPO; JPO; DERWENT; IBM TDB US-PGPUB; ON S39 ADJ 2014/03/23 '6967923".pn. USPAT; 15:37 USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB US-PGPUB; ON S41 S39 and (weight\$3 or weigh\$3) ADJ 2014/03/23 USPAT; 15:38 USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB S42 2 S30 and (weight or weigh\$3) US-PGPUB: ADJ ON 2014/03/23 USPAT; 15:41 USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB S43 S30 and ((weight or weigh\$3) with US-PGPUB; ADJ ON 2014/03/23 (paus\$3 or halt\$3 or stop\$4 or USPAT; 15:43 backpressure or back pressure)) USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB S44 S30 and ((weight or weigh\$3) same US-PGPUB; ADJ ON 2014/03/23 (paus\$3 or halt\$3 or stop\$4 or USPAT: 15:44 USOCR; FPRS; backpressure or back pressure)) EPO; JPO; DERWENT; IBM TDB S45 US-PGPUB: 301379 ((weight or weigh\$3) same (paus\$3) ADJ ON 2014/03/23 or halt\$3 or stop\$4 or backpressure USPAT; 15:46 or back pressure)) USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB US-PGPUB; S46 89069 ((weight or weigh\$3)with (paus\$3 ADJ ON 2014/03/23 or halt\$3 or stop\$4 or backpressure USPAT; 15:47 or back pressure)) USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB US-PGPUB; S47 4471 S46 and (flow near2 control) ADJ ON 2014/03/23 USPAT; 15:47

Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 96 of 328 USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB 1571 ADJ ON S48 S47 and ((adjust\$3 or chang\$3 or US-PGPUB: 2014/03/23 modif\$5) with (weight or USPAT; 15:48 USOCR; FPRS; weigh\$3)) EPO; JPO; DERWENT; IBM TDB S49 42 S47 and ((adjust\$3 or chang\$3 or US-PGPUB; ADJ ON 2014/03/23 modif\$5) with (weight or weigh\$3) USPAT; 15:49 USOCR; FPRS; with (back pressure or backpressure)) EPO; JPO; DERWENT; IBM TDB S50 US-PGPUB; ON 48 S47 and ((adjust\$3 or chang\$3 or ADJ 2014/03/23 USPAT; modif\$5) with (weight or weigh\$3) 15:49 USOCR; FPRS; with (back pressure or backpressure or paus\$3)) EPO; JPO; DERWENT; IBM TDB S51 US-PGPUB; 434 S47 and ((adjust\$3 or chang\$3 or ADJ ON 2014/03/23 modif\$5) with (weight or weigh\$3) USPAT; 15:49 with (back pressure or USOCR; FPRS; backpressure or paus\$3 or halt\$3 or EPO; JPO; stop\$4)) DERWENT: IBM TDB S52 "13360310" US-PGPUB; ADJ ON 2014/03/23 USPAT; 15:50 USOCR; FPRS; EPO: JPO: DERWENT; IBM_TDB S53 S50 and (network) US-PGPUB; ADJ ON 2014/03/23 USPAT; 15:52 USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB S54 S51 and (network) US-PGPUB; ADJ ON 2014/03/23 165 USPAT: 15:52 USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB S55 US-PGPUB: 20 S51 and (network and (packet or ADJ ON 2014/03/23 frame)) USPAT; 15:53 USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB US-PGPUB; S56 21498 (network and (weight or weigh\$3) ADJ ON 2014/03/23 same (paus\$3 or halt\$3 or stop\$4 USPAT; 15:55 or backpressure or back pressure)) USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB US-PGPUB; S57 441 (network and (weight or weigh\$3) ADJ ON 2014/03/23 with (paus\$3 or backpressure or USPAT; 15:56

	use 0.2	20-cv-00497-ADA Document 6 back pressure))	USOCR; FPRS;		raye 3	UI 320
		Dack pressure))	EPO; JPO; DERWENT; IBM_TDB			
S58	24	\$57 and (network with (flow near2 control\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:57
S59	153	S57 and ((flow near2 control\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 15:57
S60	3	"20060187945"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:38
S61	2	S60 and (weight\$3 or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:38
S62	2	"20040257997"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:41
S63	2	S62 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:41
S64	1	S62 and ((weight or weigh\$3) with (backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:42
S65	14	"7701957".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:44
S66	2	S65 and (backpressure or back pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:45
S67	2	"6952424".pn.	US-PGPUB; USPAT;	ADJ	ON	2014/03/23 17:46

		20-cv-00497-ADA Document	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			98 of 328
S68	1	S67 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:46
S69	1	S67 and (weight or weigh\$3 or back prssure or pause or backpressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:47
S70	1	S67 and (weight or weigh\$3 or back prssure or pause or backpressure or halt or stop\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:48
S73	1	S67 and (back)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 17:52
S74	1	S67 and (flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 18:17
S75	1	S67 and (flow and back)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 18:23
S76	1	S67 and (paus\$3 or stop\$4 or halt\$3 or back)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 18:24
S77	5	"20020091527"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 18:53
S78	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 20:17
S79	1	S78 and (congest\$5)	US-PGPUB; USPAT;	ADJ	ON	2014/03/23 20:17

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S84	1	S78 and ((back pressure or pause or halt\$3 or stop\$4 or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 20:19
S85	1	S78 and (congest\$5 and (back pressure or pause or halt\$3 or stop\$4 or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 20:19
S86	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 20:20
S87	1	S86 and (congest\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 20:21
S88	1	S86 and (congest\$5 and (back pressure or pause or halt\$3 or stop\$4 or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/23 20:32
S89	13	"7802028".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 00:37
S90	1	S89 and (congest\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 00:37
S91	1	S89 and (congest\$4 same (stop\$3 or paus\$3 or stop\$4 or halt\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 00:38
S92	3	"20060248242"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 00:40
S93	2	S92 and (congestion same pause)	US-PGPUB; USPAT;	ADJ	ON	2014/03/24 00:40

Ca	ase 6:20	0-cv-00497-ADA Document 66	6-11 Filed 04	4/09/21 F	Page 10	0 of 328
			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S94	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 00:46
S95	1	S94 and (weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 00:47
S96	1	S94 and (weigh\$3 and (pause or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 00:48
S97	2	S92 and (backpressure or back pressure or halt\$3 or stop\$4 or pause)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 01:07
S98	2	S92 and ((backpressure or back pressure or halt\$3 or stop\$4 or pause) and (weigh\$3 or weight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 01:15
S99	2	S92 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 01:25
S100	1	S94 and ((pause or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 01:29
S101	2	S94 and (threshold or level or limit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/03/24 01:59

3/24/2014 12:31:40 PM

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PATENT IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : John Madsen, et al.

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INGRESS TRAFFIC CONTROL IN A DATA COMMUNICATIONS SYSTEM

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Serial No. : 13/360,310

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Filed : January 27, 2012

Art Unit : 2462

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Examiner : Samina F. Choudhry

•

Att. Docket : ALC 3328-CON

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Confirmation No. : 1373

AMENDMENT UNDER 37 C.F.R § 1.111

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In response to the Office Action dated March 28, 2014, please amend the above-identified application as set forth below:

CLAIM AMENDMENTS begin on page 2 of this paper.

REMARKS begin on page 10 of this paper.

CLAIM AMENDMENTS

This listing of claims will replace all prior versions and listings of claims in the application.

1-16. (Canceled)

17. (Currently Amended) A method performed by a traffic flow control system for performing flow control on a flow of data packets for transmission over a link, the method comprising:

receiving, by a controller of the traffic flow control system, a backpressure signal, wherein the backpressure signal indicates a period of congestion;

determining, by the controller of the traffic flow control system, at least one weighting factor to be applied to the flow of data packets based on the received backpressure signal; and

adjusting an amount of rate limiting applied to at least a portion of the flow of data packets based on <u>both</u> the determined at least one weighting factor <u>and a content of the backpressure signal to be applied to the flow of data packets</u>.

18. (Currently Amended) The method of claim 17, wherein [[:]] the step of determining at least one weighting factor comprises:

determining, based on the backpressure signal, a set of weighting factors; and

the step of adjusting the amount of rate limiting comprises:

adjusting an amount of rate limiting with respect to a first type of data packet traffic based on a first weighting factor of the set of weighting factors, and

adjusting an amount of rate limiting with respect to a second type of data packet traffic based on a second weighting factor of the set of weighting factors.

- 19. (Previously Presented) The method of claim 17, wherein the backpressure signal is a backpressure message that indicates a fill level state of at least one packet queue.
- 20. (Currently Amended) The method of claim 19, wherein the step of determining at least one weighting factor further comprises:

reading the at least one weighting factor from a mapping of various fill level states for the at least one packet queue to various weighting factors.

21. (Currently Amended) The method of claim 17, further comprising:

receiving wherein the backpressure signal is received from a downstream data processing unit.

22. (Currently Amended) The method of claim 17, further comprising:

generating a traffic preference message for transmission to a source of the flow of data packets, the traffic preference message indicating a type of data packet preferred for transmission over the serial link in accordance with the determined at least one weighting factor.

- 23. (Currently Amended) The method of claim 17, wherein the contents content of the backpressure message indicates that at least one fill-level threshold for a packet queue has been crossed.
- 24. (Currently Amended) A traffic flow control system for controlling a flow of ingress data packets to be transmitted over a link, the traffic flow control system comprising:

a first rate limiter configured to provide an amount of rate limiting to a first portion of the flow of ingress data packets, the amount of rate limiting being dependent upon a first weighting factor; and

a controller configured to:

receive a backpressure signal,

determine a first weighting factor value to be applied to the flow of ingress data packets based on the received backpressure signal, and

adjust an amount of rate limiting applied to the first portion of the flow of ingress data packets by adjusting the first weighting factor used by the first rate limiter based on <u>both</u> the determined first weighting factor value and a content of the backpressure signal.

25. (Currently Amended) The traffic flow control system of claim 24, further comprising:

a second rate limiter configured to provide an amount of rate limiting to a second portion of the flow of ingress data packets that is different from the first portion of the flow of ingress data packets, the amount of rate limiting of the second rate limiter being dependent upon a second weighting factor, wherein the controller is further configured to [[:]] determine a second weighting factor value to be applied to the flow of ingress data packets based on the received backpressure signal, and adjust an amount of rate limiting applied to the second portion of the flow of ingress data packets by adjusting the second weighting factor used by the second rate limiter based on the determined second weighting factor value.

26. (Previously Presented) The traffic flow control system of claim 24, wherein

the backpressure signal is a backpressure message that indicates a fill level state of

at least one packet queue.

27. (Previously Presented) The traffic flow control system of claim 26, wherein, in

determining the first weighting factor value, the controller is configured to read the

first weighting factor value from a mapping of various fill level states for the at

least one packet queue to various weighting factor values.

28. (Previously Presented) The traffic flow control system of claim 24, wherein

the controller is further configured to generate a traffic preference message for

transmission to a source of the flow of ingress data packets, the traffic preference

message indicating a type of data packet preferred for transmission over the serial

link in accordance with the determined first weighting factor value.

29. (Currently Amended) The traffic flow control system of claim 24, wherein the

contents content of the backpressure message indicates that at least one fill-level

threshold for a packet queue has been crossed.

30. (Currently Amended) A non-transitory machine-readable storage medium

encoded with instructions for execution by a traffic flow control system for

performing flow control on a flow of data packets for transmission over a link, the

non-transitory machine-readable storage medium comprising:

instructions for receiving, by a controller of the traffic flow control system, a

backpressure signal, wherein the backpressure signal indicates a period of

congestion;

instructions for determining, by the controller of the traffic flow control

system, at least one weighting factor to be applied to the flow of data packets based

on the received backpressure signal; and

instructions for adjusting an amount of rate limiting applied to at least a

portion of the flow of data packets based on both the determined at least one

weighting factor and a content of the backpressure signal to be applied to the flow of

data packets.

31. (Currently Amended) The non-transitory machine-readable storage medium

of claim 30, wherein [[:]] the instructions for determining at least one weighting

factor comprise

instructions for determining, based on the backpressure signal, a set of

weighting factors; and

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the instructions for adjusting the amount of rate limiting comprise:

instructions for adjusting an amount of rate limiting with respect to a first

type of data packet traffic based on a first weighting factor of the set of weighting

factors, and

instructions for adjusting an amount of rate limiting with respect to a second

type of data packet traffic based on a second weighting factor of the set of weighting

factors.

32. (Previously Presented) The non-transitory machine-readable storage medium

of claim 30, wherein the backpressure signal is a backpressure message that

indicates a fill level state of at least one packet queue.

33. (Previously Presented) The non-transitory machine-readable storage medium

of claim 32, wherein the instructions for determining at least one weighting factor

comprise:

instructions for reading the at least one weighting factor from a mapping of

various fill level states for the at least one packet queue to various weighting

factors.

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34. (Previously Presented) The non-transitory machine-readable storage medium

of claim 30, wherein the backpressure signal is received from a downstream data

processing unit.

35. (Currently Amended) The non-transitory machine-readable storage medium

of claim 30, further comprising:

instructions for generating a traffic preference message for transmission to a

source of the flow of data packets, the traffic preference message indicating a type of

data packet preferred for transmission over the serial link in accordance with the

determined at least one weighting factor.

36. (Currently Amended) The non-transitory machine-readable storage medium

of claim 30, wherein the contents content of the backpressure message indicates

that at least one fill-level threshold for a packet queue has been crossed.

REMARKS

Claims 17-36 are pending in this application, of which claims 17, 24, and 30 are independent. Applicant hereby amends claims 17, 18, 20-25, 29-31, 35, and 36, and respectfully submits that this Amendment does not add any new matter.

DOUBLE PATENTING REJECTIONS

On pages 2-6, the Office Action rejects claims 17-23 and 30-36 on the ground of non-statutory obviousness-type double patenting as allegedly unpatentable over claims 1-19 of U.S. Patent No. 8,130,649. In response, Applicant hereby files a terminal disclaimer and respectfully requests withdrawal of the rejections.

PRIOR ART REJECTIONS

On pages 6-11, the Office Action rejects claims 17-23 and 30-36 under 35 U.S.C. § 103(a) as allegedly unpatentable over U.S. Patent No. 6,952,424 to Bass et al. ("Bass") in view of Pub. No. US 2006/0248242 to Andersen et al. ("Andersen"). On pages 11-15, the Office Action rejects claims 24-29 under 35 U.S.C. § 103(a) as allegedly unpatentable over Bass in view of U.S. Patent No. 6,788,686 to Khotimsky et al. ("Khotimsky").

As amended, claim 17 recites, in part: "adjusting an amount of rate limiting applied to at least a portion of the flow of data packets based on **both** the

determined at least one weighting factor and a <u>content</u> of the backpressure signal" in claim 17. The configurable mapping of Table 1, for example, provides support for this subject matter. Similar subject matter appears in claims 24 and 30. Applicant respectfully submits that the references of record, alone or in combination, fail to disclose, suggest, or teach this subject matter.

On pages 7 and 8, the Office Action relies upon Bass for rate limiting. While Bass may disclose "a form of a backpressure to limit the output," Applicant respectfully submits that Bass is silent regarding content of a backpressure signal. As amended, the independent claims recite use of this content as a parameter that adjusts the amount of rate limiting. Moreover, Bass also lacks any disclosure of adjusting an amount of rate limiting based upon two different factors, where one factor is a content of the backpressure signal.

Thus, Applicant respectfully submits that Bass in view of Andersen fails to establish a prima facie case of obviousness for independent claims 17, 24, and 30. Khotimsky fails to remedy the deficiencies of Bass in view of Andersen. Therefore, Applicant respectfully submits that independent claims 17, 24, and 30 are allowable over the references of record.

Claim 20 recites: "reading the at least one weighting factor from a <u>mapping</u> of various fill level states for the at least one packet queue to various weighting factors" (emphasis added). Similar subject matter appears in claims 27 and 33.

Applicant respectfully submits that the references of record, alone or in combination, fail to disclose, suggest, or teach this subject matter.

On page 9, the Office Action concedes that Bass does not disclose this subject matter. To remedy this admitted deficiency, the Examiner cites Andersen, relying upon Andersen's set of thresholds. However, Andersen is silent regarding the claimed <u>mapping</u> of fill level states to weighting factors. Thus, Andersen cannot remedy the admitted deficiencies of Bass.

On page 14, the Office Action alleges, in the context of claim 27, that Bass does disclose this subject matter, contradicting the Examiner's previous position. However, the Examiner fails to point out any mapping of fill level states to weighting factors in Bass. As described above, Bass lacks this subject matter.

Claims 18-23 depend from claim 17. Claims 25-29 depend from claim 24. Claims 31-36 depend from claim 30. Thus, claims 18-23, 25-29, and 31-36 are allowable at least due to their respective dependencies from allowable base claims. Therefore, Applicant respectfully requests withdrawal of all prior art rejections.

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CONCLUSION

While Applicant respectfully submits that the instant amendment places the

application in condition for allowance, should the Examiner have any further

comments or suggestions, it is respectfully requested that the Examiner telephone

the undersigned attorney in order to expeditiously resolve any outstanding issues.

In the event that the fees submitted prove to be insufficient in connection with the

filing of this paper, please charge our Deposit Account Number 50-0578 and please

credit any excess fees to such Deposit Account.

Respectfully submitted, KRAMER & AMADO, P.C.

Date: April 8, 2014

/Terry W. Kramer/

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Alexandria, VA 22314 Phone: 703-519-9801

Fax: 703-519-9802

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Electronic Patent Application Fee Transmittal						
Application Number:	133	360310				
Filing Date:	27-	Jan-2012				
Title of Invention:	INGRESS TRAFFIC FLOW CONTROL IN A DATA COMMUNICATIONS SYSTEM John Madsen					
First Named Inventor/Applicant Name:	John Madsen					
Filer:	Terry Wayne Kramer/wendy spradlin					
Attorney Docket Number:	ALC 3328-CON					
Filed as Large Entity						
Utility under 35 USC 111(a) Filing Fees						
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)	
Basic Filing:						
Pages:						
Claims:						
Miscellaneous-Filing:						
Petition:						
Patent-Appeals-and-Interference:						
Post-Allowance-and-Post-Issuance:						
Extension-of-Time:						

Case 6:20-cv-00497-ADA Documen Description	66-11 Filed Fee Code	04/09/21 Quantity	Page 115 of Amount	328 Sub-Total in USD(\$)
Miscellaneous:				
Statutory or Terminal Disclaimer	1814	1	160	160
	Tot	al in USD	(\$)	160

Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 116 of 328					
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INGRESS TRAFFIC FLOW CONTROL IN A DATA COMMUNICATIONS SYSTEM					
John Madsen					
76614					
Terry Wayne Kramer/wendy spradlin					
Terry Wayne Kramer					
ALC 3328-CON					
08-APR-2014					
27-JAN-2012					
12:00:00					
Utility under 35 USC 111(a)					

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$160
RAM confirmation Number	10646
Deposit Account	500578
Authorized User	KRAMER, TERRY

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Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 117 of 328 Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)		
1	Terminal Disclaimer Filed	sb0026_Terminal_Disclaimer.	374393	no	2		
'	Terrimar Discialifier Fried	pdf	370f39caf8bc1644ad702ebe90fb08afe68b 6f1b	110	-		
Warnings:							
Information:							
2		Response_NF.pdf	75302	yes	13		
-		Mesponse_M .par	9f3961ae5c52e86b7239a636d8dd11a9eb2 efef0	yes	13		
	Multi	part Description/PDF files in .	.zip description				
	Document De	Start	Eı	nd			
	Amendment/Req. Reconsidera	1	1				
	Claim	2	9				
	Applicant Arguments/Remark	s Made in an Amendment	10	13			
Warnings:							
Information:							
3	Fee Worksheet (SB06)	fee-info.pdf	30212	no	2		
	ree worksheer (sboo)	ree illo.pai	aa3d00ba8b779e6ac4f320d66643d54eabe 60503	110			
Warnings:			·	·			
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		Total Files Size (in bytes)	47	9907			

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If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

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PTO/SB/26 (08-11) Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT	Docket Number (Optional) ALC 3328-CON
In re Application of: Madsen et al.	
Application No.: 13/360,310	
Filed: January 27, 2012	
For: INGRESS TRAFFIC CONTROL IN A DATA COMMUNICATIONS SYSTEM	
except as provided below, the terminal part of the statutory term of any patent granted on the instant a	aid prior patent is presently shortened tion shall be enforceable only for and
In making the above disclaimer, the owner does not disclaim the terminal part of the term of any paten would extend to the expiration date of the full statutory term of the prior patent , "as the term of said prior patent later: expires for failure to pay a maintenance fee; is held unenforceable; is found invalid by a court of competent jurisdiction; is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321; has all claims canceled by a reexamination certificate; is reissued; or is in any manner terminated prior to the expiration of its full statutory term as presently shorter	or patent is presently shortened by any
Check either box 1 or 2 below, if appropriate.	
1. For submissions on behalf of a business/organization (e.g., corporation, partnership, university etc.), the undersigned is empowered to act on behalf of the business/organization. I hereby declare that all statements made herein of my own knowledge are true and that all st belief are believed to be true; and further that these statements were made with the knowledge that will made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States.	atements made on information and Iful false statements and the like so
statements may jeopardize the validity of the application or any patent issued thereon.	les code and that such williah laise
2. The undersigned is an attorney or agent of record. Reg. No. 41,541	
/Terry W. Kramer/	April 7, 2014
Signature	Date
Terry W. Kramer Typed or printed name	
-	(703) 519-9801 Telephone Number
Terminal disclaimer fee under 37 CFR 1.20(d) included.	·
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*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner). Form PTO/SB/96 may be used for making this certification. See MPEP § 324.	

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The information provided by you in this form will be subject to the following routine uses:

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- A record from this system of records may be disclosed, as a routine use, in the course of
 presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to
 opposing counsel in the course of settlement negotiations.
- A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
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P	PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						or Docket Nu /360,310	ımber	Filing Date 01/27/2012	To be Mailed
							ENTITY:	⊠ L	ARGE SMA	LL MICRO
				APPLICA	ATION AS FIL	ED – PAR	ΤI			1
			(Column 1)	(Column 2)					
	FOR		NUMBER FIL	.ED	NUMBER EXTRA		RATE	≡ (\$)	F	EE (\$)
	BASIC FEE (37 CFR 1.16(a), (b), o	or (c))	N/A		N/A		N/	'A		
	SEARCH FEE (37 CFR 1.16(k), (i), or (m))		N/A		N/	Ά				
	EXAMINATION FE (37 CFR 1.16(o), (p), o		N/A		N/A		N/	'A		
(37	TAL CLAIMS CFR 1.16(i))		mir	nus 20 = *			X \$	=		
	EPENDENT CLAIM CFR 1.16(h))	S	m	inus 3 = *			X \$	=		
	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
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		(Column 1)		APPLICATION (Column 2)	ION AS AMEN (Column 3		RT II			
AMENDMENT	04/08/2014	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EX	TRA	RATE	≣ (\$)	ADDITIO	ONAL FEE (\$)
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AM	Application Si	ze Fee (37 CFR	1.16(s))							
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		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EX	TRA	RATE	≡ (\$)	ADDITIO	DNAL FEE (\$)
ENT	Total (37 CFR 1.16(i))	*	Minus	**	=		X \$	=		
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Application Number	Application/Control	o. Applicant(s)/P Reexamination MADSEN ET	n				
Document Code - DISQ	Int	ernal Document	- DO NOT MAIL				
TERMINAL DISCLAIMER	⊠ APPROVED	□ DISA	APPROVED				
Date Filed : 4/8/14	This patent is to a Termi Disclaim	nal					
Approved/Disapproved by:							
icia D. Roberts 30,649							

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Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 123 of 328



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.				
13/360,310			ALC 3328-CON 1373					
76614 Terry W. Krame	7590 07/30/201 er, Esq.	4	EXAM	IINER				
Kramer & Ama	do, P.Ĉ.	CHOUDHRY, SAMINA F						
330 John Carlyl 3rd Floor	ie Street		ART UNIT	PAPER NUMBER				
Alexandria, VA	22314		2462					
			NOTIFICATION DATE	DELIVERY MODE				
			07/30/2014	ELECTRONIC				

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Case 6:20-cv-00497-ADA Docume	ent 66-11 Filed 04/09/21	Page 124 (
	Application No. 13/360,310	Applicant(s) MADSEN ET	
Office Action Summary	Examiner SAMINA CHOUDHRY	Art Unit 2462	AIA (First Inventor to File) Status No
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orresponden	ce address
A SHORTENED STATUTORY PERIOD FOR REPLY THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed the mailing date o D (35 U.S.C. § 13	of this communication. 3).
Status			
1) Responsive to communication(s) filed on 04/08	<u>3/2014</u> .		
A declaration(s)/affidavit(s) under 37 CFR 1.13	30(b) was/were filed on		
2a) ☑ This action is FINAL . 2b) ☐ This	action is non-final.		
3) An election was made by the applicant in respo	onse to a restriction requirement	set forth duri	ng the interview on
; the restriction requirement and election Since this application is in condition for allowan closed in accordance with the practice under E.	ce except for formal matters, pro	osecution as	to the merits is
Disposition of Claims*			
5) Claim(s) 1-36 is/are pending in the application. 5a) Of the above claim(s) is/are withdraw 6) Claim(s) is/are allowed. 7) Claim(s) 1-19,21-32 and 34-36 is/are rejected. 8) Claim(s) 20 and 33 is/are objected to. 9) Claim(s) are subject to restriction and/or and claims have been determined allowable, you may be elimparticipating intellectual property office for the corresponding aphttp://www.uspto.gov/patents/init_events/pph/index.jsp or send Application Papers 10) The specification is objected to by the Examiner and the corresponding application Papers 10) The drawing(s) filed on is/are: a) access	election requirement. gible to benefit from the Patent Pro estion. For more information, please an inquiry to <u>PPHfeedback@uspto.c</u>	ase see gov.	nway program at a
Applicant may not request that any objection to the c Replacement drawing sheet(s) including the correction	drawing(s) be held in abeyance. See	e 37 CFR 1.85	
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign Certified copies: a) All b) Some** c) None of the: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau ** See the attached detailed Office action for a list of the certifie	priority under 35 U.S.C. § 119(a) s have been received. s have been received in Applicative documents have been received (PCT Rule 17.2(a)).)-(d) or (f). tion No	
Attachment(s)			
Notice of References Cited (PTO-892)	3) Interview Summary Paper No(s)/Mail Da		
Paper No(s)/Mail Date	4) Other:		

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DETAILED ACTION

Response to Arguments

1. This action is response to the communication filed on 04/08/2014. Claims 1-19, 21-32 and 34-36 are pending.

Applicant filed terminal disclaimer to overcome ODP, consequently examiner has withdrawn the rejection.

Based on new ground of rejection, applicant's arguments are moot.

Allowable Subject Matter

2. Claims 20 and 33 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 17-19, 21-23, and 30-32, 34-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bass et al. (US 6952424) in view of Anderson et al. (US 2006/0248242) and further in view of Trinth et al. (US 2004/0015599).

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Regarding claims 17 and 30, Bass discloses a method performed by a traffic flow control system /a non-transitory machine readable storage encoded with instructions by a traffic flow control system (Col. 2; lines 16-27) for performing flow control on a flow of data packets for transmission over a link (Col. 1; lines 65-67; The present invention includes an improved system and method for scheduling the distribution of information units from a flow control system coupled to a plurality of network processing units toward a data transmission network through a MAC), the method comprising: receiving, by a controller of the traffic flow control system, a backpressure signal (Col. 8; lines 48-50; a backpressure is sent to the transmitter preventing frames from being sent out that the system cannot handle);

determining, by the controller of the traffic flow control system, at least one weighting factor to be applied to the flow of data packets based on the received backpressure signal (Col. 7; lines 46-57; claim 2; providing a back pressure indicator signal to said weighted fair calendar when an output queue associated with said weighted fair calendar is not empty, preventing that output queue from being selected during the time cycle).

Bass does not explicitly disclose that the backpressure signal indicates a period of congestion.

In an analogous art, Anderson discloses that the backpressure signal indicates a period of congestion (¶ 22). It would have been obvious to one of ordinary skill in the art at the time of invention was made to modify Bass's method by adding the limitation of Anderson in order to improve network performance by reducing network congestion.

Bass discloses adjusting an amount of rate limiting applied to at least a portion of the flow of data packets based on the determined at least one weighting factor to be applied to

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the flow of data packets (Col. 7; lines 46-50; claim 2 and 6; providing a back_pressure indicator signal to said weighted fair calendar when an output queue associated with said weighted fair calendar is not empty, preventing that output queue from being selected during the time cycle and the back pressure controller includes at least one port queue and a threshold that limits the amount of information unit to be accommodated in said queue).

Bass does not explicitly state that the adjustment of the rate is based on both the determined at least one weighting factor and a content of the backpressure signal.

In an analogous art, Trinth discloses that the adjustment of the rate is based (¶ 233; The back-pressure management system includes components from the ingress network processor and the egress network processor. The switch fabric sends flow-control information to the egress network processor so that it can inform the ingress network processor not to send data to a particular one of the logical output ports. An I/O unit of the egress network processor forwards the control portion of the flow-control information to control input storage. The data portion is forwarded to the data input storage.

An IPU fetches the flow-control information from the control input storage and decodes it and sends to an IPU a back-pressure message that includes the logical port number to which data should not be sent. The IPU sets a value within the BPLUT corresponding to the logical port so that it indicates that data should not be sent to that logical port number specified by the information.) on both the determined at least one weighting factor and a content of the backpressure signal (¶ 180 and 234; the rate of the flow is controlled based on the information received from the congestion message/backpressure message and the weight stored in the back pressure look up table (BPLUT) for each priority of COS.

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The traffic processing unit (TPU) checks the BPLUT before scheduling a flow for forwarding by the FPU. The TPU uses the "Egress Port" and the "Priority" fields within the "TPI" to form the logical port to check against the BPLUT. If the BPLUT indicates that data should not be sent to this logical port, the TPU does not schedule a forwarding command for this flow to the FPU. When this logical port is again available, the TPU may then schedule a selected flow that uses the logical port by sending a forwarding command corresponding to this flow to the FPU command storage. Using the scheduling command, the FPU fetches from the storage unit an information segment belonging to the selected flow and sends it to a switch fabric control unit ("SFC") for framing before sending to the I/O unit to forward to the switch fabric. The TPU scheduler also reads a status within the backpressure lookup table (BPLUT). The backpressure lookup table is stored in an internal SSRAM. The backpressure look up table contains the congestion status of the logical ports. Each logical port is associated with a CoS (e.g., priority) of a corresponding physical port. Therefore, since the network processor of the example herein has up to 256 priorities (8 weight bits) for 16 physical ports, there are 256.times.16=4096 logical ports. If a bit within the backpressure table is set to one, the corresponding logical port is congested. Otherwise, the corresponding port is not congested. Each entry of the BPLUT may be set by a congestion message from the corresponding logical port). It would have been obvious to one of ordinary skill in the art at the time of invention was made to modify Bass's method by adding the limitation of Trinth in order to improve network performance by reducing network congestion based on the priorities set to different flows.

Regarding claims 18 and 31, Bass does not explicitly disclose:

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the step of determining at least one weighting factor comprises determining, based on the backpressure signal, a set of weighting factors (Col. 9; lines 25-39).

Bass does not explicitly disclose that the step of adjusting the amount of rate limiting comprises:

adjusting an amount of rate limiting with respect to a first type of data packet traffic based on a first weighting factor of the set of weighting factors and adjusting an amount of rate limiting with respect to a second type of data packet traffic based on a second weighting factor of the set of weighting factors.

In an analogous art, Anderson discloses that the step of adjusting the amount of rate limiting comprises:

adjusting an amount of rate limiting with respect to a first type of data packet traffic based on a first weighting factor of the set of weighting factors and adjusting an amount of rate limiting with respect to a second type of data packet traffic based on a second weighting factor of the set of weighting factors (¶ 22; Ingress backpressure mechanism uses packet or cell counters to track the number of packets or cells used on an ingress port basis. Ingress mechanism includes registers for a set of 8 individually configurable thresholds and registers used to specify which of the 8 thresholds are to be used for every ingress port in the system. The set of thresholds include a limit threshold, a discard limit threshold and a reset limit threshold 316). It would have been obvious to one of ordinary skill in the art at the time of invention was made to modify Bass's method by adding the limitation of Anderson in order to dynamically manage different queues based on their fill level.

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Regarding claims 19 and 32, Bass discloses that the backpressure signal is a backpressure message that indicates a tilt level state of at least one packet queue (Abstract and Col. 7; lines 46-50; A "back pressure" system keeps a flow from being selected if its output cannot accept an additional frame because the current level of that port queue exceeds a threshold. This system provides a form of back pressure to limit the output, preventing frames from being sent out that the system cannot handle).

Regarding claims 21 and 34, Bass does not explicitly disclose that the backpressure signal is received from a downstream data processing unit.

In an analogous art, Anderson discloses that the backpressure signal is received from a downstream data processing unit (¶ 21; ingress backpressure mechanism). It would have been obvious to one of ordinary skill in the art at the time of invention was made to modify Bass's method by adding the limitation of Anderson in order to improve the flow control based on the capacity utilization level of the receiver.

Regarding claims 22 and35, Bass discloses generating a traffic preference message for transmission to a source of the flow of data packets, the traffic preference message indicating a type of data packet preferred for transmission over the serial link in accordance with the determined at least one weighting factor (Col. 8; lines 41-60; Each of the WFQ calendars is associated with a pair of ports; thus, WFQ Port 0 is associated with a higher priority port 0 and a lower priority port 0. If the target port queue's threshold has been exceeded, no further action is taken by that WFQ calendar during the scheduler.sub.-- tick. (This system provides a form of back pressure to limit the output, preventing frames from being sent out that the system cannot handle.) If the target port queue's threshold has not been exceeded, the slot that is indicated by the current pointer is then examined. If the slot is

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found to be empty, then the current pointer may advance to the next non-empty slot to find a flow queue WFQ candidate. If all slots are found to be empty, the current pointer is unchanged and no candidate is found. If the slot is found to be non-empty within this one calendar, then the flow queue address in stored in the slot is the WFQ candidate for this port. Each of the WFQ calendars will similarly be able to find a candidate for its associated target port queue.

Regarding claims 23 and 36, Bass discloses that the contents of the backpressure message indicates that at least one fill-level threshold for a packet queue has been crossed (Abstract; A "back pressure" system keeps a flow from being selected if its output cannot accept an additional frame because the current level of that port queue exceeds a threshold).

5. Claims 24-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bass et al. (US 6952424) in view of Anderson et al. (US 2006/0248242), further in view of Trinth et al. (US 2004/0015599) and further in view of Khotimsky et al. (US 6788686).

Regarding claim 24, Bass discloses a traffic flow control system for controlling a flow of ingress data packets to be transmitted over a link (Col. 1; lines 65-67; The present invention includes an improved system and method for scheduling the distribution of information units from a flow control system coupled to a plurality of network processing units toward a data transmission network through a MAC), the traffic flow control system comprising:

a first rate limiter configured to provide an amount of rate limiting to a flow queue ingress data packets, the amount of rate limiting being dependent upon a first weighting factor (Col.

3; lines 32-36; Col. 6; line 63... Col. 7, line 7); and

a controller configured to (claim 6; controller):

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receive a backpressure signal (Col. 8; lines 48-50; a backpressure is sent to the transmitter preventing frames from being sent out that the system cannot handle)

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determine a first weighting factor value to be applied to the flow of ingress data packets based on the received backpressure signal (Col. 8; lines 45-50; claim 2; providing a back pressure indicator signal to said weighted fair calendar when an output queue associated with said weighted fair calendar is not empty, preventing that output queue from being selected during the time cycle), and

adjust an amount of rate limiting applied to the first portion of the flow of ingress data packets by adjusting the first weighting factor used by the first rate limiter based on the determined first weighting factor value (Col. 8; lines 40-50; claim 4; Col. 9; lines 48-57).

Bass does not explicitly disclose that the flow queue is a first portion of the flow.

In an analogous art, Khotimsky discloses that the flow queue is a first portion of the flow (Col. 4; lines 11-25; flow is split into different portions and the flow is controlled for each portion). It would have been obvious to one of ordinary skill in the art at the time of invention was made to modify Bass's method by adding the limitation of Khotimsky in order to dynamically manage different portions of flows based on their corresponding egress buffer fill level.

Regarding claim 25, Bass discloses a traffic flow control system for controlling a flow of ingress data packets to be transmitted over a link (Col. 1; lines 65-67; The present invention includes an improved system and method for scheduling the distribution of information units from a flow control system coupled to a plurality of network processing units toward a data transmission network through a MAC), the traffic flow control system comprising:

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a second rate limiter configured to provide an amount of rate limiting to a flow queue ingress data packets, the amount of rate limiting being dependent upon a first weighting factor (Col. 3; lines 32-36; Col. 6; line 63... Col. 7, line 7); and a controller configured to (claim 6; controller):

receive a backpressure signal (Col. 8; lines 48-50; a backpressure is sent to the transmitter preventing frames from being sent out that the system cannot handle)

determine a first weighting factor value to be applied to the flow of ingress data packets based on the received backpressure signal (Col. 8; lines 45-50; claim 2; providing a back pressure indicator signal to said weighted fair calendar when an output queue associated with said weighted fair calendar is not empty, preventing that output queue from being selected during the time cycle), and adjust an amount of rate limiting applied to the first portion of the flow of ingress data packets by adjusting the first weighting factor used by the first rate limiter based on the determined first weighting factor value (Col. 8; lines 40-50; claim 4; Col. 9; lines 48-57).

Bass does not explicitly disclose that the flow queue is a second portion of the flow.

In an analogous art, Khotimsky discloses that the flow queue is a second portion of the flow (Col. 4; lines 11-25; flow is split into different portions and the flow is controlled for each portion). It would have been obvious to one of ordinary skill in the art at the time of invention was made to modify Bass's method by adding the limitation of Khotimsky in order to dynamically manage different portions of flows based on their corresponding egress buffer fill level.

Regarding claim 26, Bass discloses that the backpressure signal is a backpressure message that indicates a tilt level state of at least one packet queue (Abstract and Col. 7; lines

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46-50; A "back pressure" system keeps a flow from being selected if its output cannot accept an additional frame because the current level of that port queue exceeds a threshold. This system provides a form of back pressure to limit the output, preventing frames from being sent out that the system cannot handle).

Regarding claim 27, Bass further discloses that in determining the first weighting factor value, the controller is configured to read the first weighting factor value from a mapping of various fill level states for the at least one packet queue to various weighting factor values (Col. 7; lines 46-50; claim 2 and 6; providing a back pressure indicator signal to said weighted fair calendar when an output queue associated with said weighted fair calendar is not empty, preventing that output queue from being selected during the time cycle and the back pressure controller includes at least one port queue and a threshold that limits the amount of information unit to be accommodated in said queue)

Regarding claim 28, Bass further discloses that the controller is further configured to generate a traffic preference message for transmission to a source of the flow of ingress data packets (Col. 9; lines 11-14), the traffic preference message indicating a type of data packet preferred for transmission over the serial link in accordance with the determined first weighting factor value (Col. 9; lines 11-24).

Regarding claims 29, Bass discloses that the contents of the backpressure message indicates that at least one fill-level threshold for a packet queue has been crossed (Abstract; A "back pressure" system keeps a flow from being selected if its output cannot accept an additional frame because the current level of that port queue exceeds a threshold).

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Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SAMINA CHOUDHRY whose telephone number is (571)270-7102. The examiner can normally be reached on Monday to Thursday (7:30 a.m. to 5.00p.m.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yemane Mesfin can be reached on (571)272-3927. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/SAMINA CHOUDHRY/

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Examiner, Art Unit 2462

/Kevin C. Harper/

Primary Examiner, Art Unit 2462

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				Application/	Control No.	Applicant(s)/Pate	ent Under
		Notice of Reference	o Citod	13/360,310		Reexamination MADSEN ET AL	
		Notice of helefelice	S Chea	Examiner		Art Unit	
				SAMINA CH	HOUDHRY	2462	Page 1 of 1
				U.S. PATENT DOCUM	MENTS		
*		Document Number Country Code-Number-Kind Code	Date MM-YYYY		Name		Classification
*	Α	US-2004/0015599 A1	01-2004	Trinh et al.			709/232
	В	US-					
	С	US-					
	D	US-					
	Е	US-					
	F	US-					
	G	US-					
	Н	US-					
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	J	US-					
	К	US-					
	L	US-					
	М	US-					
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

EAST Search History

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	9	"20040015599"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 15:38
L4	2	L3 and (back pressure or backpressure or weigh\$3) US-PGPUB; UUSOCR; FPRSUPO; DERWEI		ADJ	ON	2014/07/22 15:38
L5	2	L4 and (rate or speed or fast\$3 or slow\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 15:38
L6	3	3 and (congest\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 15:47
L7	3	3 and (flow with control\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 15:51
L8	2	3 and (tpu)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 16:55
S1	14467	(halt\$3 paus\$3 backpressure) and (network with flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/09 00:33
S2	1373	S1 and (congest\$4 with flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/09 00:34
S 3	80	S1 and ((halt\$3 paus\$3 backpressure) with (weight or weigh\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/09 00:35
S4	80	S1 and ((halt\$3 paus\$3 backpressure) with (weight weigh\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/09 00:35
S5	2	S1 and ((backpressure near5 signal) with (weight weigh\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/09 00:36
S6	30	S1 and ((backpressure) with (weight weigh\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/09 00:36

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S7	1	"13360310"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/09 00:36
S 8	70	S1 and ((backpressure) same (weight weigh\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/09 00:39
S9	1329	S1 and ((backpressure back adj\$3 pressure) same (weight weigh\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/09 00:39
S11	38	S1 and ((backpressure or back near2 pressure) with (weight or weigh\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/09 00:40
S12	14467	(halt\$3 paus\$3 backpressure) and (network with flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/09 23:36
S13	101	S12 and ((backpressure or back near2 pressure) same (weight or weigh\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/09 23:36
S14	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/10 18:43
S15	1	S14 and (weight\$3 or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/10 18:43
S18	1	S14 and ((weight\$3 or weigh\$3) same (paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/10 19:01
S19	1	S14 and ((paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/10 19:03
\$20	1	"13330365"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 11:03
\$21	1	S20 and (relative with occupancy)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 11:29
S22	1	S20 and (relative)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 11:29
S24	5	"7023857".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 12:07
S25	1	S24 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO;	A DJ	ON	2014/07/22 12:07

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C	ase 6:	:20-cv-00497-ADA Docume	ent 66-11 Filed 04 JPO; DERWENT;	4/09/21 I	age 14	0 of 328
			IBM_TDB			
S26	9	"20040015599"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 12:18
S27	2	\$26 and (back pressure or backpressure or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 12:18
S28	2	\$26 and (congest\$5 with message)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 12:52
S29	2	S26 and (bplut or table)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 12:53
S30	3	S26 and (bplut or table or congest\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 12:53
S31	2	S26 and (back pressure or back pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 12:57
S32	4	"7983287".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 13:07
S33	1	S32 and (weigh\$3 or weight\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 13:07
S35	1	S32 and ((weigh\$3 or weight\$3) same (backpressure or back pressure or halt\$3 or stop\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 13:09
S36	3	S26 and (bplut or table or congest\$4 or weigh\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 13:33

7/22/2014 5:29:50 PM

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Search Notes



Application/Control No.	Applicant(s)/Patent Under Reexamination
13360310	MADSEN ET AL.
Examiner	Art Unit
SAMINA CHOUDHRY	2462

CPC- SEARCHED		
Symbol	Date	Examiner
H04L 47/10	3/20/2014	SC

CPC COMBINATION SETS - SEARCHED					
Symbol Date Examiner					
H04L 5/0053, H04L 12/5602, H04L 2012/5636	03/20/2014	SC			

US CLASSIFICATION SEARCHED						
Class	Subclass	Date	Examiner			
		03/19/2014				

SEARCH NOTE	ES	
Search Notes	Date	Examiner
EAST search with all databases		
keyword search	03/19/2014	SC
370/235,229,464,465,468	03/19/2014	SC
Assignee and Inventorship Search done	03/19/2014	SC
Updated EAST search	07/15/2014	SC
UpdatedAssignee and Inventorship Search done	07/15/2014	SC

US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
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U.S. Patent and Trademark Office Part of Paper No.: 20140531

EAST Search History

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	5	"20020091527"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 17:34
L2	1376	harper.xp.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 17:34
L3	1	L1 and (speech near2 subroutine)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 17:34
L4	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 17:34
L5	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 17:34
L6	4	L4 or L5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 17:34
L7	3	L6 and (program or code or instructions or software or computer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 17:34
L8	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 17:34
L9	1	L8 and (program or code or instructions or software or computer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 17:34
L10	1	L6 and (pause or halt\$3 or stop\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 17:34
L11		L6 and (pause or halt\$3 or stop\$4 or backpressure or back pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 17:34
L12		"6788686"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 17:34
L13	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 17:34
L14	1	L13 and (pause or halt\$3 or stop\$4 or backpressure or back pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 17:34
L15	1	L5 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2014/07/22 17:34
L16	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	ADJ	ON	2014/07/22 17:34

EAST Search History

Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 143 of 328

			DERWENT; IBM_TDB			
	L17 1	L16 and (weight or	US-PGPUB; USPAT;	A DJ	ON	2014/07/22
		weigh\$3)	USOCR; FPRS; EPO; JPO; DERWENT: IBM TDB			17:34
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Terry W. Kramer, Esq. Kramer & Amado, P.C. 330 John Carlyle Street 3rd Floor Alexandria, VA 22314

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Courtesy Reminder for Application Serial No: 13/360,310

Attorney Docket No: ALC 3328-CON

Customer Number: 76614

Date of Electronic Notification: 07/30/2014

This is a courtesy reminder that new correspondence is available for this application. If you have not done so already, please review the correspondence. The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

An email notification regarding the correspondence was sent to the following email address(es) associated with your customer number: mail@krameramado.com

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair. If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov or call 1-866-217-9197.

PATENT IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : John Madsen, et al.

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INGRESS TRAFFIC CONTROL IN A DATA COMMUNICATIONS SYSTEM

Serial No. : 13/360,310

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Filed : January 27, 2012

Art Unit : 2462

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Examiner : Samina F. Choudhry

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Att. Docket : ALC 3328-CON

:

Confirmation No. : 1373

REQUEST FOR RECONSIDERATION AFTER FINAL

Mail Stop AF Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

This Request is in response to the Office Action dated July 30, 2014, and is believed to be fully responsive to each point of the rejection raised therein. Accordingly, Applicant respectfully requests favorable reconsideration and allowance of all the claims in view of the following remarks.

CLAIMS begin on page 2 of this paper.

REMARKS begin on page 10 of this paper.

CLAIMS

1-16. (Canceled)

17. (Previously Presented) A method performed by a traffic flow control system for performing flow control on a flow of data packets for transmission over a link,

the method comprising:

receiving, by a controller of the traffic flow control system, a backpressure signal, wherein the backpressure signal indicates a period of congestion;

determining, by the controller of the traffic flow control system, at least one weighting factor to be applied to the flow of data packets based on the received backpressure signal; and

adjusting an amount of rate limiting applied to at least a portion of the flow of data packets based on both the determined at least one weighting factor and a content of the backpressure signal.

18. (Previously Presented) The method of claim 17, wherein the step of determining at least one weighting factor comprises:

determining, based on the backpressure signal, a set of weighting factors; and the step of adjusting the amount of rate limiting comprises:

adjusting an amount of rate limiting with respect to a first type of data packet traffic based on a first weighting factor of the set of weighting factors, and

adjusting an amount of rate limiting with respect to a second type of data packet traffic based on a second weighting factor of the set of weighting factors.

- 19. (Previously Presented) The method of claim 17, wherein the backpressure signal is a backpressure message that indicates a fill level state of at least one packet queue.
- 20. (Previously Presented) The method of claim 19, wherein the step of determining at least one weighting factor further comprises:

reading the at least one weighting factor from a mapping of various fill level states for the at least one packet queue to various weighting factors.

- 21. (Previously Presented) The method of claim 17, further comprising:
 receiving the backpressure signal from a downstream data processing unit.
- 22. (Previously Presented) The method of claim 17, further comprising:

generating a traffic preference message for transmission to a source of the flow of data packets, the traffic preference message indicating a type of data packet preferred for transmission over the serial link in accordance with the determined at least one weighting factor.

23. (Previously Presented) The method of claim 17, wherein the content of the backpressure message indicates that at least one fill-level threshold for a packet

queue has been crossed.

24. (Previously Presented) A traffic flow control system for controlling a flow of

ingress data packets to be transmitted over a link, the traffic flow control system

comprising:

a first rate limiter configured to provide an amount of rate limiting to a first

portion of the flow of ingress data packets, the amount of rate limiting being

dependent upon a first weighting factor; and

a controller configured to:

receive a backpressure signal,

determine a first weighting factor value to be applied to the flow of

ingress data packets based on the received backpressure signal, and

adjust an amount of rate limiting applied to the first portion of the flow of ingress data packets by adjusting the first weighting factor used by the first rate limiter based on both the determined first weighting factor value and a content of the backpressure signal.

25. (Previously Presented) The traffic flow control system of claim 24, further

comprising:

a second rate limiter configured to provide an amount of rate limiting to a second portion of the flow of ingress data packets that is different from the first portion of the flow of ingress data packets, the amount of rate limiting of the second rate limiter being dependent upon a second weighting factor, wherein the controller is further configured to determine a second weighting factor value to be applied to the flow of ingress data packets based on the received backpressure signal, and adjust an amount of rate limiting applied to the second portion of the flow of ingress data packets by adjusting the second weighting factor used by the second rate limiter based on the determined second weighting factor value.

26. (Previously Presented) The traffic flow control system of claim 24, wherein

the backpressure signal is a backpressure message that indicates a fill level state of

at least one packet queue.

- 5 -

27. (Previously Presented) The traffic flow control system of claim 26, wherein, in

determining the first weighting factor value, the controller is configured to read the

first weighting factor value from a mapping of various fill level states for the at

least one packet queue to various weighting factor values.

28. (Previously Presented) The traffic flow control system of claim 24, wherein

the controller is further configured to generate a traffic preference message for

transmission to a source of the flow of ingress data packets, the traffic preference

message indicating a type of data packet preferred for transmission over the serial

link in accordance with the determined first weighting factor value.

29. (Previously Presented) The traffic flow control system of claim 24, wherein

the content of the backpressure message indicates that at least one fill-level

threshold for a packet queue has been crossed.

30. (Previously Presented) A non-transitory machine-readable storage medium

encoded with instructions for execution by a traffic flow control system for

performing flow control on a flow of data packets for transmission over a link, the

non-transitory machine-readable storage medium comprising:

instructions for receiving, by a controller of the traffic flow control system, a

backpressure signal, wherein the backpressure signal indicates a period of

congestion;

instructions for determining, by the controller of the traffic flow control

system, at least one weighting factor to be applied to the flow of data packets based

on the received backpressure signal; and

instructions for adjusting an amount of rate limiting applied to at least a

portion of the flow of data packets based on both the determined at least one

weighting factor and a content of the backpressure.

31. (Previously Presented) The non-transitory machine-readable storage medium

of claim 30, wherein the instructions for determining at least one weighting factor

comprise

instructions for determining, based on the backpressure signal, a set of

weighting factors; and

the instructions for adjusting the amount of rate limiting comprise:

instructions for adjusting an amount of rate limiting with respect to a first

type of data packet traffic based on a first weighting factor of the set of weighting

factors, and

- 7 -

instructions for adjusting an amount of rate limiting with respect to a second

type of data packet traffic based on a second weighting factor of the set of weighting

factors.

32. (Previously Presented) The non-transitory machine-readable storage medium

of claim 30, wherein the backpressure signal is a backpressure message that

indicates a fill level state of at least one packet queue.

33. (Previously Presented) The non-transitory machine-readable storage medium

of claim 32, wherein the instructions for determining at least one weighting factor

comprise:

instructions for reading the at least one weighting factor from a mapping of

various fill level states for the at least one packet queue to various weighting

factors.

34. (Previously Presented) The non-transitory machine-readable storage medium

of claim 30, wherein the backpressure signal is received from a downstream data

processing unit.

- 8 -

35. (Previously Presented) The non-transitory machine-readable storage medium

of claim 30, further comprising:

instructions for generating a traffic preference message for transmission to a

source of the flow of data packets, the traffic preference message indicating a type of

data packet preferred for transmission over the serial link in accordance with the

determined at least one weighting factor.

36. (Previously Presented) The non-transitory machine-readable storage medium

of claim 30, wherein the content of the backpressure message indicates that at least

one fill-level threshold for a packet queue has been crossed.

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REMARKS

Claims 17-36 are pending in this application, of which claims 17, 24, and 30 are independent.

PRIOR ART REJECTIONS

On pages 2-8, the Office Action rejects claims 17-19, 21-23, 30-32, and 34-36 under 35 U.S.C. § 103(a) as allegedly unpatentable over U.S. Patent No. 6,952,424 to Bass et al. ("Bass") in view of Pub. No. US 2006/0248242 to Andersen et al. ("Andersen"), and further in view of Pub. No. US2004/0015599 to Trinh et al. ("Trinh"). On pages 8-11, the Office Action rejects claims 24-29 under 35 U.S.C. § 103(a) as allegedly unpatentable over Bass in view of Trinh, and further in view of U.S. Patent No. 6,788,686 to Khotimsky et al. ("Khotimsky"). On page 2, the Office Action indicates that claims 20 and 33 contain allowable subject matter.

Claim 17 recites, in part: "adjusting an <u>amount of rate limiting</u> applied to at least a portion of the flow of data packets based on <u>both</u> the determined at least one weighting factor and a <u>content</u> of the backpressure signal" in claim 17. Similar subject matter appears in claims 24 and 30. Applicant respectfully submits that the references of record, alone or in combination, fail to disclose, suggest, or teach this subject matter.

On page 4, the Office Action concedes that Bass does not disclose this subject matter. To remedy this admitted deficiency, the Examiner cites portions of Trinh, a 60-page jumbo patent. In particular, the Examiner relies upon "the weight stored in the back pressure look up table."

In response, Applicant respectfully submits that the claim language refers to both the content of the backpressure signal and the determined weighting factor. Together, these parameters control the adjustment of an <u>amount of rate limiting</u>. In contrast, the Examiner alleges that Trinh controls the "rate of the flow."

Instead of controlling a rate, paragraph [181] of Trinh discloses, for bit 63 of double word zero, "If this bit is set to one, then the flow is valid. Otherwise, when . . . zero, the flow is invalid." It only alternates between valid and invalid flows.

Paragraph [0233] of Trinh discloses "flow control information" in the context of "sends flow control information to the egress network processor 624 so that it can inform the ingress network processor 622 not to send data." Paragraph [0234] of Trinh similarly discloses "data should not be sent to this logical port." Rather than adjusting an amount of rate limiting, Trinh stops all data at a particular port.

The other references of record fail to remedy the deficiencies of Bass and Trinh. Thus, Applicant respectfully submits that independent claims 17, 24, and 30 are allowable over the references of record.

Claim 27 recites: "reading the at least one weighting factor from a mapping of various fill level states for the at least one packet queue to various weighting factors" (emphasis added). Similar subject matter appears in claims 20 and 33. The Examiner indicates that this subject matter is allowable in claims 20 and 33 but takes an inconsistent position for claim 27.

Bass fails to disclose the <u>mapping</u> of various fill level states for the at least one packet queue to various weighting factor. On page 11, the rejection of claim 27 fails to address this subject matter because the Office Action does not show how the recited mapping is present in Bass.

Claims 18-23 depend from claim 17. Claims 25-29 depend from claim 24. Claims 31-36 depend from claim 30. Thus, claims 18-23, 25-29, and 31-36 are allowable at least due to their respective dependencies from allowable base claims. Therefore, Applicant respectfully requests withdrawal of all prior art rejections.

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Application No. 13/360,310 Our Ref. No. ALC 3328-CON

CONCLUSION

While Applicant respectfully submits that the instant amendment places the

application in condition for allowance, should the Examiner have any further

comments or suggestions, it is respectfully requested that the Examiner telephone

the undersigned attorney in order to expeditiously resolve any outstanding issues.

In the event that the fees submitted prove to be insufficient in connection with the

filing of this paper, please charge our Deposit Account Number 50-0578 and please

credit any excess fees to such Deposit Account.

Respectfully submitted, KRAMER & AMADO, P.C.

Date: August 12, 2014

__/Terry W. Kramer/

Terry W. Kramer

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Fax: 703-519-9802

- 13 -

	nent 66-11 Filed 04/09/21 Page 158 of 328 Knowledgement Receipt
EFS ID:	19842584
Application Number:	13360310
International Application Number:	
Confirmation Number:	1373
Title of Invention:	INGRESS TRAFFIC FLOW CONTROL IN A DATA COMMUNICATIONS SYSTEM
First Named Inventor/Applicant Name:	John Madsen
Customer Number:	76614
Filer:	Terry Wayne Kramer/wendy spradlin
Filer Authorized By:	Terry Wayne Kramer
Attorney Docket Number:	ALC 3328-CON
Receipt Date:	12-AUG-2014
Filing Date:	27-JAN-2012
Time Stamp:	14:38:32
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Response AF.pdf	72141	ves	13
'		nesponse_AL.pul	131edf10577b524ede7038f974e0b35514d 420b3	, l	15

Document Description	Start	End	
Response After Final Action	1	1	
Claims	2	9	
Applicant Arguments/Remarks Made in an Amendment	10	13	

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New Applications Under 35 U.S.C. 111

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National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Applicatio	on or Docket Number 3/360,310	Filing Date 01/27/2012	To be Mailed
							ENTITY: 🛛 L	ARGE SMA	LL MICRO
	APPLICATION AS FILED – PART I								
			(Column 1	l) 	(Column 2)				
Ļ	FOR	N	IUMBER FIL	_ED	NUMBER EXTRA		RATE (\$)	F	FEE (\$)
ᄖ	BASIC FEE (37 CFR 1.16(a), (b),	or (c))	N/A N/A		N/A N/A		N/A		
	SEARCH FEE (37 CFR 1.16(k), (i), (or (m))					N/A		
	EXAMINATION FE (37 CFR 1.16(o), (p),		N/A		N/A	N/A N/A			
	ΓAL CLAIMS CFR 1.16(i))		mir	nus 20 = *			X \$ =		
	EPENDENT CLAIM CFR 1.16(h))	S	m	inus 3 = *			X \$ =		
	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).								
	MULTIPLE DEPEN	IDENT CLAIM PF	RESENT (3	7 CFR 1.16(j))					
* If t	he difference in colu	ımn 1 is less than	zero, ente	r "0" in column 2.			TOTAL		
		(Column 1)		(Column 2)	(Column 3		ART II		
LN:	08/12/2014	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EX	TRA	RATE (\$)	ADDITIO	ONAL FEE (\$)
AMENDMENT	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0		x \$80 =		0
Z Z	Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0		x \$420 =		0
AMI	Application Size Fee (37 CFR 1.16(s))								
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						_	TOTAL ADD'L FE		0
		(Column 1)		(Column 2)	(Column 3)			
		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EX	TRA	RATE (\$)	ADDITIO	ONAL FEE (\$)
ENT	Total (37 CFR 1.16(i))	*	Minus	**	=		X \$ =		
ENDM	Independent (37 CFR 1.16(h))	*	Minus	***	=		X \$ =		
	Application Size Fee (37 CFR 1.16(s))								
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Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 161 of 328



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/360,310	13/360,310 01/27/2012 John Madsen			1373
76614 Terry W. Kram	7590 09/29/201 er, Esq.	EXAMINER		
Kramer & Ama	do, P.Ĉ.	CHOUDHRY, SAMINA F		
330 John Carlyl 3rd Floor	ie Street	ART UNIT PAPER NUMBER		
Alexandria, VA	22314	2462		
			NOTIFICATION DATE	DELIVERY MODE
			09/29/2014	ELECTRONIC

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The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mail@krameramado.com

Case 6:20-cv-00497-ADA Documention Language 162 of 328 Advisory Action 13/360,310 MADSEN ET AL.						
Before the Filing of an Appeal Brief	Examiner SAMINA CHOUDI	HRY 2462	nit AIA (First Ir No	nventor to File) Status		
The MAILING DATE of this communicati	ion appears on the o	cover sheet with the co	rrespondence add	iress		
THE REPLY FILED <u>12 August 2014</u> FAILS TO PLACE TH <u>NO NOTICE OF APPEAL FILED</u>	IIS APPLICATION IN	CONDITION FOR ALLO	WANCE.			
 The reply was filed after a final rejection. No Notice of A one of the following replies: (1) an amendment, affidavit 	, or other evidence, wh	nich places the application	in condition for allow	wance;		
(2) a Notice of Appeal (with appeal fee) in compliance w 37 CFR 1.114 if this is a utility or plant application. Note the following time periods:	e that RCEs are not pe	ermitted in design application				
a) The period for reply expiresmonths from	-	•				
b) The period for reply expires on: (1) the mailing date In no event, however, will the statutory period for re	eply expire later than S	IX MONTHS from the mail	ing date of the final	rejection.		
c) A prior Advisory Action was mailed more than 3 m within 2 months of the mailing date of the final rejective prior Advisory Action or SIX MONTHS from the Examiner Note: If box 1 is checked, check e FIRST RESPONSE TO APPLICANT'S FIRST REJECTION. ONLY CHECK BOX (c) IN THE	ction. The current perion mailing date of the fin ither box (a), (b) or (c). The AFTER-FINAL REPRELIMITED SITUATION	od for reply expires al rejection, whichever is e ONLY CHECK BOX (b) V LY WHICH WAS FILED W N SET FORTH UNDER B	months from the m arlier. WHEN THIS ADVISO ITHIN TWO MONTI OX (c). See MPEP	pailing date of ONY ACTION IS THE HS OF THE FINAL 706.07(f).		
Extensions of time may be obtained under 37 CFR 1.136(a extension fee have been filed is the date for purposes of dappropriate extension fee under 37 CFR 1.17(a) is calculated in the final Office action; or (2) as set forth in (b) or (c) a mailing date of the final rejection, even if timely filed, may a NOTICE OF APPEAL	etermining the period ted from: (1) the expi above, if checked. A	of extension and the cor ration date of the shorten ny reply received by the 0	responding amoun ed statutory period Office later than thr	It of the fee. The If or reply originally see months after the		
 The Notice of Appeal was filed on A brief in Notice of Appeal (37 CFR 41.37(a)), or any extensio Appeal has been filed, any reply must be filed within AMENDMENTS 	n thereof (37 CFR 41	.37(e)), to avoid dismissa				
3. The proposed amendments filed after a final rejection	on but prior to the da	to of filing a brief will not	he entered because	00		
a) They raise new issues that would require furth b) They raise the issue of new matter (see NOT)	her consideration and	-		5 C		
c) They are not deemed to place the application appeal; and/or	,	peal by materially reducin	g or simplifying the	issues for		
d) They present additional claims without cancel NOTE: (See 37 CFR 1.116 and 41.33		number of finally rejected	l claims.			
4. The amendments are not in compliance with 37 CF 5. Applicant's reply has overcome the following rejection	R 1.121. See attache	d Notice of Non-Complia	nt Amendment (PT	OL-324).		
 Applicant's reply has overcome the following rejection. Newly proposed or amended claim(s) would allowable claim(s). 		tted in a separate, timely	filed amendment of	canceling the non-		
 For purposes of appeal, the proposed amendment(s new or amended claims would be rejected is provide AFFIDAVIT OR OTHER EVIDENCE 			entered, and an ex	xplanation of how the		
8. A declaration(s)/affidavit(s) under 37 CFR 1.130(b) v	was/were filed on					
 The affidavit or other evidence filed after final action, applicant failed to provide a showing of good and su presented. See 37 CFR 1.116(e). 						
10. The affidavit or other evidence filed after the date of because the affidavit or other evidence failed to over and sufficient reasons why it is necessary and was r	rcome <u>all</u> rejections u not earlier presented.	nder appeal and/or appel See 37 CFR 41.33(d)(1)	llant fails to provide	e a showing of good		
11. ☐ The affidavit or other evidence is entered. An explaement of the control of the contro		·				
12. The request for reconsideration has been considered Please see the attached continuation sheet.	ed but does NOT plac	e the application in cond	ition for allowance	because:		
13. ☐ Note the attached Information <i>Disclosure Statemen</i>14. ☐ Other:	t(s). (PTO/SB/08) Pa	per No(s)				
STATUS OF CLAIMS						
15. The status of the claim(s) is (or will be) as follows:						
Claim(s) allowed: Claim(s) objected to: 20,27 and 33. Claim(s) rejected: 17-19, 21-26, 28-32 and 34-36. Claim(s) withdrawn from consideration:						
/SAMINA CHOUDHRY/						
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Examiner, Art Unit 2462

Regarding claim 17, applicant argues on page of applicant's response that prior art does not explicitly disclose "adjusting an amount of rate limiting applied to at least a portion of the flow of data packets based on both the determined at least one weighting factor and a content of the backpressure signal". Examiner respectfully disagrees because Trinth clearly discloses that the rate of the flow is controlled based on the information received from the congestion message/backpressure message and the weight stored in the back pressure look up table (BPLUT) for each priority of COS. Trinth further discloses that the TPU 162 checks a BPLUT 575 before scheduling a command to the FPU 165 to forward the contents of one or more information segment storage units of a certain flow. A bit within the BPLUT 575 represents a logical port. The logical port represents the combination of a destination physical output port number and a priority of the flow (Where each flow has assigned weight accordind to the priority (Paragraph 180). The priority of the flow and the physical output port assigned to the flow are programmable within the network processor. The TPU 162 uses the "Egress Port" and the "Priority" fields within the "TPI" to form the logical port to check against the BPLUT 575. If the backpressure bit is set for the logical port, the TPU 162 does not schedule a forwarding command to the FPU 165. The interprocessor communication unit ("IPU") 576 receives information from another network processor to stop sending data to a logical port. The IPU 576 decodes the backpressure information and accordingly sets the particular one of the entries within the BPLUT 575 (Paragraph 205).

Regarding claim 27, applicant's arguments are persuasive. Claim 27 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any interveing claims.

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OK TO ENTER: /S.C./

PATENT IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : John Madsen, et al.

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INGRESS TRAFFIC CONTROL IN A DATA COMMUNICATIONS SYSTEM

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Serial No. : 13/360,310

. 10/0

Filed : January 27, 2012

Art Unit : 2462

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Examiner : Samina F. Choudhry

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Att. Docket : ALC 3328-CON

:

Confirmation No. : 1373

REQUEST FOR RECONSIDERATION AFTER FINAL

Mail Stop AF Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

This Request is in response to the Office Action dated July 30, 2014, and is believed to be fully responsive to each point of the rejection raised therein. Accordingly, Applicant respectfully requests favorable reconsideration and allowance of all the claims in view of the following remarks.

CLAIMS begin on page 2 of this paper.

REMARKS begin on page 10 of this paper.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of John Madsen, et al.

INGRESS TRAFFIC CONTROL IN A DATA COMMUNICATIONS SYSTEM

Serial No. 13/360,310

Filed January 27, 2012

Art Unit 2462

Examiner Samina F. Choudhry

Att. Docket **ALC 3328-CON**

Confirmation No. 1373

APPEAL BRIEF

Mail Stop Appeal Brief Patents Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Appellant respectfully submits this Appeal Brief in response to the final Office Action of July 30, 2014, the Advisory Action of September 29, 2014, and in support of the Notice of Appeal filed herewith.

I. REAL PARTY IN INTEREST

The party in interest is Alcatel Lucent, by way of an Assignment recorded at Reel 027610, frame 0953.

II. SUMMARY OF CLAIMED SUBJECT MATTER

The following summary refers to the specification of the present application by paragraph and line numbers.

The subject matter recited in independent claim 17 includes: "A method performed by a traffic flow control system (Fig. 1: 10; paragraph [0012], line 1) for performing flow control on a flow of data packets for transmission over a link, the method comprising: receiving, by a controller (Fig. 1: 42; paragraph [0012], line 13) of the traffic flow control system (Fig. 1: 10; paragraph [0012], line 1), a backpressure signal (Fig. 1: 40; paragraph [0015], line 2), wherein the backpressure signal (Fig. 1: 40; paragraph [0015], line 2) indicates a period of congestion; determining, by the controller (Fig. 1: 42; paragraph [0012], line 13) of the traffic flow control system (Fig. 1: 10; paragraph [0012], line 1), at least one weighting factor (Fig. 1: W1; paragraph [0015], line 12) to be applied to the flow of data packets based on the received backpressure signal (Fig. 1: 40; paragraph [0015], line 2); and adjusting an amount (paragraph [0016], lines 8-10) of rate limiting applied to at least a portion of the flow of data packets based on both the determined at least one weighting factor (Fig. 1: W1; paragraph [0015], line 12) and a content (Fig. 1: BP; paragraph [0015], line 2) of the backpressure signal (Fig. 1: 40; paragraph [0015], line 2)."

The subject matter recited in independent claim 24 includes: "A traffic flow control system (Fig. 1: 10; paragraph [0012], line 1) for controlling a flow of ingress

data packets to be transmitted over a link, the traffic flow control system (Fig. 1: 10; paragraph [0012], line 1) comprising: a first rate limiter (Fig. 1: 20; paragraph [0012], line 7) configured to provide an amount (paragraph [0016], lines 8-10) of rate limiting to a first portion of the flow of ingress data packets, the amount (paragraph [0016], lines 8-10) of rate limiting being dependent upon a first weighting factor (Fig. 1: W1; paragraph [0015], line 12); and a controller (Fig. 1: 42; paragraph [0012], line 13) configured to: receive a backpressure signal (Fig. 1: 40; paragraph [0015], line 2), determine a first weighting factor value (Fig. 1: W1; paragraph [0015], line 12) to be applied to the flow of ingress data packets based on the received backpressure signal (Fig. 1: 40; paragraph [0015], line 2), and adjust an amount (paragraph [0016], lines 8-10) of rate limiting applied to the first portion of the flow of ingress data packets by adjusting the first weighting factor (Fig. 1: W1; paragraph [0015], line 12) used by the first rate limiter (Fig. 1: 20; paragraph [0012], line 7) based on both the determined first weighting factor value (Fig. 1: W1; paragraph [0015], line 12) and a content (Fig. 1: BP; paragraph [0015], line 2) of the backpressure signal (Fig. 1: 40; paragraph [0015], line 2)."

The subject matter recited in independent claim 30 includes: "A non-transitory machine-readable storage medium encoded with instructions for execution by a traffic flow control system (Fig. 1: 10; paragraph [0012], line 1) for performing flow control on a flow of data packets for transmission over a link, the non-transitory machine-readable storage medium comprising: instructions for

receiving, by a controller (Fig. 1: 42; paragraph [0012], line 13) of the traffic flow control system (Fig. 1: 10; paragraph [0012], line 1), a backpressure signal (Fig. 1: 40; paragraph [0015], line 2), wherein the backpressure signal (Fig. 1: 40; paragraph [0015], line 2) indicates a period of congestion; instructions for determining, by the controller (Fig. 1: 42; paragraph [0012], line 13) of the traffic flow control system (Fig. 1: 10; paragraph [0012], line 1), at least one weighting factor (Fig. 1: W1; paragraph [0015], line 12) to be applied to the flow of data packets based on the received backpressure signal (Fig. 1: 40; paragraph [0015], line 2); and instructions for adjusting an amount (paragraph [0016], lines 8·10) of rate limiting applied to at least a portion of the flow of data packets based on both the determined at least one weighting factor (Fig. 1: W1; paragraph [0015], line 12) and a content (Fig. 1: BP; paragraph [0015], line 2) of the backpressure (Fig. 1: 40; paragraph [0015], line 2)."

III. ARGUMENT

A. <u>Obviousness Rejections of Claims 17-19, 21-23, 30-32, 34-36</u>

On pages 2-8, the final Office Action rejected claims 17-19, 21-23, 30-32, and 34-36 under 35 U.S.C. § 103(a) as allegedly unpatentable over U.S. Patent No. 6,952,424 to Bass et al. ("Bass") in view of Pub. No. US 2006/0248242 to Andersen et al. ("Andersen"), mistakenly listed as Anderson in the Office Action, and further in view of Pub. No. US2004/0015599 to Trinh et al. ("Trinh").

Rejections on obviousness grounds cannot be sustained with mere conclusory statements. Instead, there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness. See *In re Kahn*, 441 F.3d 977, 988 (Fed. Cir. 2006) and M.P.E.P. § 2142. The final Office Action failed to provide articulated reasoning to support its obviousness rejections. Hence, as described below, the final Office Action has failed to present a *prima facie* case of obviousness for any of the rejected claims.

The USPTO bears the initial burden of showing a *prima facie* case of obviousness. See *In re Sullivan*, 498 F.3d 1345, 1351 (Fed. Cir. 2007). When a *prima facie* case of obviousness is made, the burden then shifts to the Applicant to come forward with evidence and/or argument supporting patentability. See *In re Glaug*, 283 F.3d 1335, 1338 (Fed. Cir. 2002). Appellant respectfully submits that the final Office Action did not carry the burden in this case.

1. <u>Independent Claims 17 and 30</u>

Claim 17 recites, in part: "adjusting an <u>amount of rate limiting</u> applied to at least a portion of the flow of data packets based on <u>both</u> the determined at least one weighting factor and a <u>content</u> of the backpressure signal" (emphasis added). Similar subject matter appears in claim 30. Appellant respectfully submits that the references of record fail to disclose, suggest, or teach this subject matter.

On page 4, the final Office Action conceded that Bass does not disclose this subject matter. To remedy this admitted deficiency, the Examiner cited portions of Trinh, a 60-page jumbo patent. In particular, the Examiner relied upon "the weight stored in the back pressure look up table."

In response, Appellant respectfully submits that the claim language refers to both the content of the backpressure signal and the determined weighting factor. Together, these two parameters control the adjustment of an <u>amount</u> of rate limiting. In contrast, the Examiner alleges that Trinh controls the "rate of the flow." Instead of controlling a rate, paragraph [181] of Trinh discloses, for bit 63 of double word zero, "If this bit is set to one, then the flow is valid. Otherwise, when zero, the flow is invalid." Thus, it alternates between valid and invalid flows.

Paragraph [0233] of Trinh discloses "flow control information" in the context of "sends flow control information to the egress network processor 624 so that it can inform the ingress network processor 622 not to send data." Paragraph [0234] of

Trinh discloses, in part: "data should not be sent to this logical port." Rather than adjusting an <u>amount</u> of rate limiting, Trinh stops all data at a particular port.

In the Advisory Action, the Examiner alleges: "Trinh clearly discloses that the rate of the flow is controlled." In response, Appellant respectfully submits that the claims recite "adjusting an <u>amount</u> of rate limiting." As described above, Trinh either allows all data or stops all data. Because Trinh does not adjust an amount of rate limiting, Trinh cannot remedy the deficiencies of Bass. Thus, the final Office Action did not present a *prima facie* case of obviousness.

The other references of record fail to remedy the deficiencies of Bass and Trinh. Thus, Appellant respectfully submits that independent claims 17 and 30 are allowable over the references of record and requests withdrawal of the rejections of claims 17 and 30.

2. <u>Dependent Claims 18, 19, 21-23, 31, 32, and 34-36</u>

Claims 18, 19, and 21-23 depend from claim 17. Claims 31, 32, and 34-36 depend from claim 30. Thus, claims 18, 19, 21-23, 31, 32, and 34-36 are allowable at least due to their respective dependencies from allowable base claims. Therefore, Appellant respectfully requests withdrawal of the rejections of claims 18, 19, 21-23, 31, 32, and 34-36.

B. Obviousness Rejections of Claims 24-26, 28, and 29

On pages 8-11, the final Office Action rejected claims 24-29 under 35 U.S.C. § 103(a) as allegedly unpatentable over Bass in view of Andersen, further in view of Trinh, and yet further in view of U.S. Patent No. 6,788,686 to Khotimsky et al. ("Khotimsky"). In the Advisory Action, the Examiner withdrew the rejection of claim 27.

1. <u>Independent Claim 24</u>

Claim 24 recites, in part: "adjust an <u>amount of rate limiting</u> applied to the first portion of the flow of ingress data packets by adjusting the first weighting factor used by the first rate limiter based on <u>both</u> the determined first weighting factor value and a <u>content</u> of the backpressure signal" (emphasis added). Appellant respectfully submits that the references of record, alone or in combination, fail to disclose, suggest, or teach this subject matter.

On page 9, the final Office Action relied upon Bass for this subject matter. This position is inconsistent with the Examiner's admission that Bass does not disclose this subject matter when recited in independent claims 17 and 30. Moreover, Appellant respectfully submits that Bass is silent regarding the recited use of **both** the determined first weighting factor value and a **content** of the backpressure signal.

Khotimsky fails to remedy the deficiencies of Bass in view of Andersen, and further in view of Trinh. Thus, Applicant respectfully submits that claim 24 is allowable over the references of record and requests withdrawal of the rejection of claim 24.

2. <u>Dependent Claims 25, 26, 28, and 29</u>

Claims 25, 26, 28, and 29 depend from claim 24. Thus, claims 25, 26, 28, and 29 are allowable at least due to their dependencies from an allowable base claim. Therefore, Appellant respectfully requests withdrawal of the rejections of claims 25, 26, 28, and 29.

CONCLUSION

For at least the reasons discussed above, Appellant respectfully submits that the rejections are in error, and that claims 17-19, 21-26, 28-32, and 34-36 are in condition for allowance. Therefore, Appellant respectfully requests that this Honorable Board reverse the rejections of claims 17-19, 21-26, 28-32, and 34-36.

Respectfully submitted, KRAMER & AMADO, P.C.

Date: October 20, 2014 /Terry W. Kramer/

Terry W. Kramer Registration No. 41,541

KRAMER & AMADO, P.C.

330 John Carlyle Street, 3rd Floor Alexandria, VA 22314

Phone: 703-519-9801 Fax: 703-519-9802

IV. CLAIMS APPENDIX

CLAIMS INVOLVED IN THE APPEAL:

1-16. (Canceled)

17. (Rejected) A method performed by a traffic flow control system for performing

flow control on a flow of data packets for transmission over a link, the method

comprising:

receiving, by a controller of the traffic flow control system, a backpressure

signal, wherein the backpressure signal indicates a period of congestion;

determining, by the controller of the traffic flow control system, at least one

weighting factor to be applied to the flow of data packets based on the received

backpressure signal; and

adjusting an amount of rate limiting applied to at least a portion of the flow

of data packets based on both the determined at least one weighting factor and a

content of the backpressure signal.

18. (Rejected) The method of claim 17, wherein the step of determining at least

one weighting factor comprises:

determining, based on the backpressure signal, a set of weighting factors; and

the step of adjusting the amount of rate limiting comprises:

- 13 -

adjusting an amount of rate limiting with respect to a first type of data packet traffic based on a first weighting factor of the set of weighting factors, and

adjusting an amount of rate limiting with respect to a second type of data packet traffic based on a second weighting factor of the set of weighting factors.

- 19. (Rejected) The method of claim 17, wherein the backpressure signal is a backpressure message that indicates a fill level state of at least one packet queue.
- 20. (Objected) The method of claim 19, wherein the step of determining at least one weighting factor further comprises:

reading the at least one weighting factor from a mapping of various fill level states for the at least one packet queue to various weighting factors.

- 21. (Rejected) The method of claim 17, further comprising:
 receiving the backpressure signal from a downstream data processing unit.
- 22. (Rejected) The method of claim 17, further comprising:

generating a traffic preference message for transmission to a source of the flow of data packets, the traffic preference message indicating a type of data packet

preferred for transmission over the serial link in accordance with the determined at least one weighting factor.

- 23. (Rejected) The method of claim 17, wherein the content of the backpressure message indicates that at least one fill-level threshold for a packet queue has been crossed.
- 24. (Rejected) A traffic flow control system for controlling a flow of ingress data packets to be transmitted over a link, the traffic flow control system comprising:

a first rate limiter configured to provide an amount of rate limiting to a first portion of the flow of ingress data packets, the amount of rate limiting being dependent upon a first weighting factor; and

a controller configured to:

receive a backpressure signal,

determine a first weighting factor value to be applied to the flow of ingress data packets based on the received backpressure signal, and

adjust an amount of rate limiting applied to the first portion of the flow of ingress data packets by adjusting the first weighting factor used by the first rate limiter based on both the determined first weighting factor value and a content of the backpressure signal.

25. (Rejected) The traffic flow control system of claim 24, further comprising:

a second rate limiter configured to provide an amount of rate limiting to a second portion of the flow of ingress data packets that is different from the first portion of the flow of ingress data packets, the amount of rate limiting of the second rate limiter being dependent upon a second weighting factor, wherein the controller is further configured to determine a second weighting factor value to be applied to the flow of ingress data packets based on the received backpressure signal, and adjust an amount of rate limiting applied to the second portion of the flow of ingress data packets by adjusting the second weighting factor used by the second rate limiter based on the determined second weighting factor value.

- 26. (Rejected) The traffic flow control system of claim 24, wherein the backpressure signal is a backpressure message that indicates a fill level state of at least one packet queue.
- 27. (Objected) The traffic flow control system of claim 26, wherein, in determining the first weighting factor value, the controller is configured to read the first weighting factor value from a mapping of various fill level states for the at least one packet queue to various weighting factor values.

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28. (Rejected) The traffic flow control system of claim 24, wherein the controller

is further configured to generate a traffic preference message for transmission to a

source of the flow of ingress data packets, the traffic preference message indicating

a type of data packet preferred for transmission over the serial link in accordance

with the determined first weighting factor value.

29. (Rejected) The traffic flow control system of claim 24, wherein the content of

the backpressure message indicates that at least one fill-level threshold for a packet

queue has been crossed.

30. (Rejected) A non-transitory machine-readable storage medium encoded

with instructions for execution by a traffic flow control system for performing flow

control on a flow of data packets for transmission over a link, the non-transitory

machine-readable storage medium comprising:

instructions for receiving, by a controller of the traffic flow control system, a

backpressure signal, wherein the backpressure signal indicates a period of

congestion;

instructions for determining, by the controller of the traffic flow control

system, at least one weighting factor to be applied to the flow of data packets based

on the received backpressure signal; and

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instructions for adjusting an amount of rate limiting applied to at least a portion of the flow of data packets based on both the determined at least one weighting factor and a content of the backpressure.

31. (Rejected) The non-transitory machine-readable storage medium of claim 30,

wherein the instructions for determining at least one weighting factor comprise

instructions for determining, based on the backpressure signal, a set of

weighting factors; and

the instructions for adjusting the amount of rate limiting comprise:

instructions for adjusting an amount of rate limiting with respect to a first

type of data packet traffic based on a first weighting factor of the set of weighting

factors, and

instructions for adjusting an amount of rate limiting with respect to a second

type of data packet traffic based on a second weighting factor of the set of weighting

factors.

32. (Rejected) The non-transitory machine-readable storage medium of claim 30,

wherein the backpressure signal is a backpressure message that indicates a fill

level state of at least one packet queue.

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33. (Objected) The non-transitory machine-readable storage medium of claim 32,

wherein the instructions for determining at least one weighting factor comprise:

instructions for reading the at least one weighting factor from a mapping of

various fill level states for the at least one packet queue to various weighting

factors.

34. (Rejected) The non-transitory machine-readable storage medium of claim 30,

wherein the backpressure signal is received from a downstream data processing

unit.

35. (Rejected) The non-transitory machine-readable storage medium of claim 30,

further comprising:

instructions for generating a traffic preference message for transmission to a

source of the flow of data packets, the traffic preference message indicating a type of

data packet preferred for transmission over the serial link in accordance with the

determined at least one weighting factor.

36. (Rejected) The non-transitory machine-readable storage medium of claim 30,

wherein the content of the backpressure message indicates that at least one fill-

level threshold for a packet queue has been crossed.

Electronic Patent Application Fee Transmittal					
Application Number:	13360310				
Filing Date:	27	27-Jan-2012			
Title of Invention:	ING	GRESS TRAFFIC FLO'	W CONTROL IN	A DATA COMMUN	ICATIONS SYSTEM
First Named Inventor/Applicant Name:	John Madsen				
Filer:	Te	rry Wayne Kramer/v	vendy spradlin		
Attorney Docket Number:	ALC 3328-CON				
Filed as Large Entity					
Utility under 35 USC 111(a) Filing Fees					
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:					
Pages:					
Claims:					
Miscellaneous-Filing:					
Petition:					
Patent-Appeals-and-Interference:					
Appeal Forwarding Fee		1413	1	2000	2000
Post-Allowance-and-Post-Issuance:					
Extension-of-Time:					

Case 6:20-cv-00497-ADA Documen Description	i 66-11 Filed Fee Code	04/09/21 Quantity	Page 185 of Amount	328 Sub-Total in USD(\$)
Miscellaneous:				
	Tot	al in USD	(\$)	2000

	Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 186 of 328 Electronic Acknowledgement Receipt				
EFS ID:	20459351				
Application Number:	13360310				
International Application Number:					
Confirmation Number:	1373				
Title of Invention:	INGRESS TRAFFIC FLOW CONTROL IN A DATA COMMUNICATIONS SYSTEM				
First Named Inventor/Applicant Name:	John Madsen				
Customer Number:	76614				
Filer:	Terry Wayne Kramer/wendy spradlin				
Filer Authorized By:	Terry Wayne Kramer				
Attorney Docket Number:	ALC 3328-CON				
Receipt Date:	20-OCT-2014				
Filing Date:	27-JAN-2012				
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Application Type:	Utility under 35 USC 111(a)				

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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Notice of Appeal Filed	NOT APPEAL.pdf	281571	no	2
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Fee Worksheet (SB06)	fee-info.pdf	30020	no	2
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	Total Files Size (in bytes):	40	09704	
		Appeal Brief Filed Appeal_Brief.pdf Fee Worksheet (SB06) fee-info.pdf	Appeal Brief Filed Appeal_Brief.pdf 98113	Appeal Brief Filed Appeal_Brief.pdf 98113 no 1040889dd74be821355ca6d30857f6ff42bf 05d9 05d9

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/AIA/31 (03-13)

Approved for use through 03/31/2013. OMB 0651-0031

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NOTICE OF APPEAL FROM THE EXAMINER TO		Docket Number (Optional)			
THE PATENT TRIAL AND APPEAL BC	ALC 3328-CON				
I hereby certify that this correspondence is being facsimile transmitted to the USPTO, EFS-Web transmitted to the USPTO, or	In re Application of John Madsen et al.				
deposited with the United States Postal Service with sufficient postage in an envelope addressed to "Commissioner for Patents, P.O.	Application Number 13/360,310	Filed January 27, 2012			
Box 1450, Alexandria, on Alexandria, VA 22313-1450" [37 CFR 1.8(a)] on	For Ingress Traffic Control	ol in a Data Communications System			
Signature	Art Unit	Examiner			
Typed or printed name	2462	Samina F. Choudhry			
Applicant hereby appeals to the Patent Trial and Appeal Board from the	last decision of the examin	er.			
The fee for this Notice of Appeal is (37 CFR 41.20(b)(1))		\$_800.00			
Applicant asserts small entity status. See 37 CFR 1.27. Therefore, t by 50%, and the resulting fee is:	he fee shown above is reduc	ced \$			
Applicant certifies micro entity status. See 37 CFR 1.29. Therefore, the fee shown above is reduced by 75%, and the resulting fee is: Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.					
A check in the amount of the fee is enclosed.					
Payment by credit card. Form PTO-2038 is attached.	Payment by credit card. Form PTO-2038 is attached.				
The Director has already been authorized to charge fees in this application to a Deposit Account.					
The Director is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 50-0578					
Payment made via EFS-Web.					
A petition for an extension of time under 37 CFR 1.136(a) (PTO/AIA/22 or equivalent) is enclosed. For extensions of time in reexamination proceedings, see 37 CFR 1.550.					
WARNING: Information on this form may become public. Credit on this form. Provide credit card information and authorization o		t be included			
I am the					
applicant attorney or agent of record Registration number 41,541		or agent acting under 37 CFR 1.34			
Signature /Terry W. Kramer/					
Typed or printed name Terry W. Kramer					
Telephone Number <u>(703)</u> 519-9801					
Date October 20, 2014		<u> </u>			
NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 forms if more than one signature is required, see below*.	CFR 1.4 for signature requir	rements and certifications. Submit multiple			
* Total of 1 forms are submitted.					

This collection of information is required by 37 CFR 41.20(b)(1) and 41.31. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11, 1.14 and 41.6. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

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- A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence
 to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of
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- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
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Electronic Patent Application Fee Transmittal					
Application Number:	13360310				
Filing Date:	27-Jan-2012				
Title of Invention:	ING	GRESS TRAFFIC FLO'	W CONTROL IN	I A DATA COMMUN	IICATIONS SYSTEM
First Named Inventor/Applicant Name:	John Madsen				
Filer:	Terry Wayne Kramer/wendy spradlin				
Attorney Docket Number:	ALC 3328-CON				
Filed as Large Entity					
Utility under 35 USC 111(a) Filing Fees					
Description	Fee Code Quantity Amount Sub-Total in USD(\$)		Sub-Total in USD(\$)		
Basic Filing:					
Pages:					
Claims:					
Miscellaneous-Filing:					
Petition:					
Patent-Appeals-and-Interference:					
Notice of Appeal	Notice of Appeal 1401 1 800 800				800
Post-Allowance-and-Post-Issuance:					
Extension-of-Time:					

Case 6:20-cv-00497-ADA Documen Description	f 66-11 Filed Fee Code	04/09/21 Quantity	Page 191 of Amount	328 Sub-Total in USD(\$)
Miscellaneous:				
	Tot	al in USD	(\$)	800

Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 192 of 328				
Electronic Acknowledgement Receipt				
EFS ID:	20459430			
Application Number:	13360310			
International Application Number:				
Confirmation Number:	1373			
Title of Invention:	INGRESS TRAFFIC FLOW CONTROL IN A DATA COMMUNICATIONS SYSTEM			
First Named Inventor/Applicant Name:	John Madsen			
Customer Number:	76614			
Filer:	Terry Wayne Kramer/wendy spradlin			
Filer Authorized By:	Terry Wayne Kramer			
Attorney Docket Number:	ALC 3328-CON			
Receipt Date:	20-OCT-2014			
Filing Date:	27-JAN-2012			
Time Stamp:	14:02:07			
Application Type:	Utility under 35 USC 111(a)			

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Payment Type	Credit Card
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RAM confirmation Number	257
Deposit Account	500578
Authorized User	KRAMER, TERRY

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

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Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 193 of 328 Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Fee Worksheet (SB06)	fee-info.pdf	30233 	no	2

Warnings:

Information:

Total Files Size (in bytes):

30233

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New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
13/360,310	01/27/2012	ALC 3328-CON	1373		
⁷⁶⁶¹⁴ Terry W. Krame	7590 03/13/201 er. Esa.	5	EXAM	INER	
Kramer & Ama 330 John Carlyl	do, P.Ĉ.		CHOUDHRY	, SAMINA F	
3rd Floor	22214		ART UNIT	PAPER NUMBER	
Alexandria, VA	. 22314		2462		
			NOTIFICATION DATE	DELIVERY MODE	
			03/13/2015	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mail@krameramado.com

Case 6:20-cv-00497-ADA Docume	ent 66-11 Filed 04/09/21	Page 195 (of 328
	Application No. 13/360,310	Applicant(s) MADSEN ET)
Office Action Summary	Examiner SAMINA CHOUDHRY	Art Unit 2462	AIA (First Inventor to File) Status No
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orresponden	ce address
A SHORTENED STATUTORY PERIOD FOR REPLY THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	G(a). In no event, however, may a reply be tir ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed the mailing date o D (35 U.S.C. § 13:	f this communication.
Status			
1) Responsive to communication(s) filed on 10/20 A declaration(s)/affidavit(s) under 37 CFR 1.1:			
·	action is non-final.		
3) An election was made by the applicant in response	· ·		ng the interview on
 the restriction requirement and election Since this application is in condition for allowan closed in accordance with the practice under E 	ice except for formal matters, pro	osecution as t	to the merits is
Disposition of Claims*			
5) Claim(s) 17-36 is/are pending in the application 5a) Of the above claim(s) is/are withdraw 6) Claim(s) is/are allowed. 7) Claim(s) is/are rejected. 8) Claim(s) 20 and 33 is/are objected to. 9) Claim(s) are subject to restriction and/or * If any claims have been determined allowable, you may be eliparticipating intellectual property office for the corresponding ap	on from consideration. Telection requirement. Gible to benefit from the Patent Pro Oplication. For more information, plea	ase see	n way program at a
Application Papers			
10) The specification is objected to by the Examiner		E	
11) ☐ The drawing(s) filed on is/are: a) ☐ acce Applicant may not request that any objection to the o			(a)
Replacement drawing sheet(s) including the correcti			
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign Certified copies: a) All b) Some** c) None of the: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority document: application from the International Bureau ** See the attached detailed Office action for a list of the certifie	s have been received. s have been received in Applicat rity documents have been receiv (PCT Rule 17.2(a)).	tion No	
Attachment(s)			
1) Notice of References Cited (PTO-892)	3) 🔲 Interview Summary	(PTO-413)	
Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/S Paper No(s)/Mail Date	Paper No(s)/Mail D. 4) Cher:	ate	

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DETAILED ACTION

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1. In view of the appeal brief filed on 12/10/2010, PROSECUTION IS HEREBY

REOPENED. A new ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two

options:

(1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37

CFR 1.113 (if this Office action is final); or,

(2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an

appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can

be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been

increased since they were previously paid, then appellant must pay the difference between the

increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing

below:

/YEMANE MESFIN/

Supervisory Patent Examiner, Art Unit 2462

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Response to Arguments

Page 3

This action is response to the communication filed on 10/20/2014. Claims 17-36 are 1.

pending.

Examiner is re-opening the prosecution because of the header error and overlooked limitation for

claim 24. Examiner has maintained the prior art rejected as the panel agreed unanimously.

On page 6 of Appellant's response, Appellant argues:

"Claim 17 recites, in part: "adjusting an amount of rate limiting applied to at least a portion

of the flow of data packets based on both the determined at least one weighting factor and a content

of the backpressure signal" (emphasis added). Similar subject matter appears in claim 30. Appellant

respectfully submits that the references of record fail to disclose, suggest, or teach this subject

matter".

Examiner respectfully disagrees because applicant does not specify "amount of rate limiting".

The claim language does not disclose "amount" means how much amount. The "amount" can be

any change/reduction to the rate of the flow of data packets based on the priority (weight) assigned

to the flow of data packets (¶ 76; 180; 205) and feedback/back pressure signal received by the input

unit from the output unit for that priority of flow (¶ 23-234). The amount of rate limiting is adjusted

dynamically based on the status of the output port (congested or not congested) and each port is

associated with a CoS (e.g., priority/weight) (¶ 180; 205).

Trinth discloses assigning multiple ports to a flow (¶ 233; all ports having the same

priority/class) and the back pressure message contains a port number to which data should not be

sent (Fig. 22; ¶ 233; An IPU fetches the flow-control information from the control input storage and

decodes it and sends to an IPU a back-pressure message that includes the logical port number to

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which data should not be sent. The IPU sets a value within the BPLUT corresponding to the logical port so that it indicates that data should not be sent to that logical port number specified by the flow-control information. Note that the IPU can also specify that the ingress network processor should not send data to a set of ports (e.g., all ports having the same priority/class). So data flow to one port or a set of ports is controlled based on the status (congested or not congested) of those ports (¶ 233). Controlling flow of data packets to one port or set of ports is in fact "adjusting an amount of rate limiting". If data is not sent to one port from a set of ports, it means the "amount" of rate is reduced to adjust the output port congestion. Depending upon the severity of congestion, data may not send to a set of ports. Hence, the "amount" of data flow to output ports after adjusting can be $0 \le \text{rate}$ of flow > rate of flow before receiving the back-pressure message. The rate of data flow can be reduced to zero or it can be above zero but less than the data flow at the time of congestion depending upon the congestion level at the output port (¶ 76; 78; 106; 112 and 119).

Trinth further discloses that the rate of the flow is controlled based on the information received from the congestion message/backpressure message and the weight stored in the back pressure look up table (BPLUT) for each priority of COS (¶ 180 and 234). The traffic processing unit (TPU) checks the BPLUT before scheduling a flow for forwarding by the FPU. The TPU uses the "Egress Port" and the "Priority" fields within the "TPI" to form the logical port to check against the BPLUT. If the BPLUT indicates that data should not be sent to this logical port, the TPU does not schedule a forwarding command for this flow to the FPU. When this logical port is again available, the TPU may then schedule a selected flow that uses the logical port by sending a forwarding command corresponding to this flow to the FPU command storage. Using the scheduling command, the FPU fetches from the storage unit an information segment belonging to the selected flow and sends it to a switch fabric control unit ("SFC") for framing before sending to

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the I/O unit to forward to the switch fabric. The TPU scheduler also reads a status within the backpressure lookup table (BPLUT). The backpressure lookup table is stored in an internal SSRAM. The backpressure look up table contains the congestion status of the logical ports. Each logical port is associated with a CoS (e.g., priority) of a corresponding physical port. Therefore, since the network processor of the example herein has up to 256 priorities (8 weight bits) for 16 physical ports, there are 256.times.16=4096 logical ports. If a bit within the backpressure table is set to one, the corresponding logical port is congested. Otherwise, the corresponding port is not congested. Each entry of the BPLUT may be set by a congestion message from the corresponding logical port). It would have been obvious to one of ordinary skill in the art at the time of invention was made to modify Bass's method by adding the limitation of Trinth in order to improve network performance by reducing network congestion based on the priorities set to different flows (Fig. 22; ¶ 234).

In addition to Trinth, Bass also discloses determining, by the controller of the traffic flow control system, at least one weighting factor to be applied to the flow of data packets based on the received backpressure signal (Col. 7; lines 46-57; claim 2; providing a back pressure indicator signal to said weighted fair calendar when an output queue associated with said weighted fair calendar is not empty, preventing that output queue from being selected during the time cycle). A "back pressure" system keeps a flow from being selected it its output cannot accept an additional frame because the current level of that port queue exceeds a threshold (Abstract; Col. 8; lines 41-50).

The reasoning stated above also applies to other pending claims.

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Allowable Subject Matter

2. Claims 20 and 33 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 17-19, 21-23, and 30-32, 34-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bass et al. (US 6952424) in view of Anderson et al. (US 2006/0248242) and further in view of Trinth et al. (US 2004/0015599).

Regarding claims 17 and 30, Bass discloses a method performed by a traffic flow control system /a non-transitory machine readable storage encoded with instructions by a traffic flow control system (Col. 2; lines 16-27) for performing flow control on a flow of data packets for transmission over a link (Col. 1; lines 65-67; The present invention includes an improved system and method for scheduling the distribution of information units from a flow control system coupled to a plurality of network processing units toward a data transmission network through a MAC), the method comprising:

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receiving, by a controller of the traffic flow control system, a backpressure signal (Col. 8; lines 48-50; a backpressure is sent to the transmitter preventing frames from being sent out that the system cannot handle);

determining, by the controller of the traffic flow control system, at least one weighting factor to be applied to the flow of data packets based on the received backpressure signal (Col. 7; lines 46-57; claim 2; providing a back pressure indicator signal to said weighted fair calendar when an output queue associated with said weighted fair calendar is not empty, preventing that output queue from being selected during the time cycle). Bass does not explicitly disclose that the backpressure signal indicates a period of congestion.

In an analogous art, Anderson discloses that the backpressure signal indicates a period of congestion (¶ 22). It would have been obvious to one of ordinary skill in the art at the time of invention was made to modify Bass's method by adding the limitation of Anderson in order to improve network performance by reducing network congestion.

Bass discloses adjusting an amount of rate limiting applied to at least a portion of the flow of data packets based on the determined at least one weighting factor to be applied to the flow of data packets (Col. 7; lines 46-50; claim 2 and 6; providing a back_pressure indicator signal to said weighted fair calendar when an output queue associated with said weighted fair calendar is not empty, preventing that output queue from being selected during the time cycle and the back pressure controller includes at least one port queue and a threshold that limits the amount of information unit to be accommodated in said queue).

Bass does not explicitly state that the adjustment of the rate is based on both the determined at least one weighting factor and a content of the backpressure signal.

In an analogous art, Trinth discloses that the adjustment of the rate is based (¶ 233;

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The back-pressure management system includes components from the ingress network processor and the egress network processor. The switch fabric sends flow-control information to the egress network processor so that it can inform the ingress network processor not to send data to a particular one of the logical output ports. An I/O unit of the egress network processor forwards the control portion of the flow-control information to control input storage. The data portion is forwarded to the data input storage.

An IPU fetches the flow-control information from the control input storage and decodes it and sends to an IPU a back-pressure message that includes the logical port number to which data should not be sent. The IPU sets a value within the BPLUT corresponding to the logical port so that it indicates that data should not be sent to that logical port number specified by the information.) on both the determined at least one weighting factor and a content of the backpressure signal (¶ 180 and 234; the rate of the flow is controlled based on the information received from the congestion message/backpressure message and the weight stored in the back pressure look up table (BPLUT) for each priority of COS.

The traffic processing unit (TPU) checks the BPLUT before scheduling a flow for forwarding by the FPU. The TPU uses the "Egress Port" and the "Priority" fields within the "TPI" to form the logical port to check against the BPLUT. If the BPLUT indicates that data should not be sent to this logical port, the TPU does not schedule a forwarding command for this flow to the FPU. When this logical port is again available, the TPU may then schedule a selected flow that uses the logical port by sending a forwarding command corresponding to this flow to the FPU command storage. Using the scheduling command, the FPU fetches from the storage unit an information segment belonging to the selected flow and sends it to a switch fabric control unit ("SFC") for framing before sending to the I/O unit to forward to the switch fabric. The TPU scheduler also reads a status

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different flows.

within the backpressure lookup table (BPLUT). The backpressure lookup table is stored in an internal SSRAM. The backpressure look up table contains the congestion status of the logical ports. Each logical port is associated with a CoS (e.g., priority) of a corresponding physical port. Therefore, since the network processor of the example herein has up to 256 priorities (8 weight bits) for 16 physical ports, there are 256.times.16=4096 logical ports. If a bit within the backpressure table is set to one, the corresponding logical port is congested. Otherwise, the corresponding port is not congested. Each entry of the BPLUT may be set by a congestion message from the corresponding logical port). It would have been obvious to one of ordinary skill in the art at the time of invention was made to modify Bass's method by adding the limitation of Trinth in order to improve network performance by reducing network congestion based on the priorities set to

Regarding claims 18 and 31, Bass does not explicitly disclose:

the step of determining at least one weighting factor comprises determining, based on the backpressure signal, a set of weighting factors (Col. 9; lines 25-39).

Bass does not explicitly disclose that the step of adjusting the amount of rate limiting comprises:

adjusting an amount of rate limiting with respect to a first type of data packet traffic based on a first weighting factor of the set of weighting factors and

adjusting an amount of rate limiting with respect to a second type of data packet traffic based on a second weighting factor of the set of weighting factors.

In an analogous art, Anderson discloses that the step of adjusting the amount of rate limiting comprises:

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adjusting an amount of rate limiting with respect to a first type of data packet traffic based on a first

weighting factor of the set of weighting factors and

adjusting an amount of rate limiting with respect to a second type of data packet traffic based on a

second weighting factor of the set of weighting factors (¶ 22; Ingress backpressure mechanism uses

packet or cell counters to track the number of packets or cells used on an ingress port basis. Ingress

mechanism includes registers for a set of 8 individually configurable thresholds and registers used to

specify which of the 8 thresholds are to be used for every ingress port in the system. The set of

thresholds include a limit threshold, a discard limit threshold and a reset limit threshold 316). It

would have been obvious to one of ordinary skill in the art at the time of invention was made to

modify Bass's method by adding the limitation of Anderson in order to dynamically manage

different queues based on their fill level.

Regarding claims 19 and 32, Bass discloses that the backpressure signal is a backpressure message

that indicates a tilt level state of at least one packet queue (Abstract and Col. 7; lines 46-50; A "back

pressure" system keeps a flow from being selected if its output cannot accept an additional frame

because the current level of that port queue exceeds a threshold. This system provides a form of

back pressure to limit the output, preventing frames from being sent out that the system cannot

handle).

Regarding claims 21 and 34, Bass does not explicitly disclose that the backpressure signal is

received from a downstream data processing unit.

In an analogous art, Anderson discloses that the backpressure signal is received from a downstream

data processing unit (¶21; ingress backpressure mechanism). It would have been obvious to one of

ordinary skill in the art at the time of invention was made to modify Bass's method by adding the

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limitation of Anderson in order to improve the flow control based on the capacity utilization level of the receiver.

Regarding claims 22 and35, Bass discloses generating a traffic preference message for transmission to a source of the flow of data packets, the traffic preference message indicating a type of data packet preferred for transmission over the serial link in accordance with the determined at least one weighting factor (Col. 8; lines 41-60; Each of the WFQ calendars is associated with a pair of ports; thus, WFQ Port 0 is associated with a higher priority port 0 and a lower priority port 0. If the target port queue's threshold has been exceeded, no further action is taken by that WFQ calendar during the scheduler.sub.— tick. (This system provides a form of back pressure to limit the output, preventing frames from being sent out that the system cannot handle.) If the target port queue's threshold has not been exceeded, the slot that is indicated by the current pointer is then examined. If the slot is found to be empty, then the current pointer may advance to the next non-empty slot to find a flow queue WFQ candidate. If all slots are found to be empty, the current pointer is unchanged and no candidate is found. If the slot is found to be non-empty within this one calendar, then the flow queue address in stored in the slot is the WFQ candidate for this port. Each of the WFQ calendars will similarly be able to find a candidate for its associated target port queue.

Regarding claims 23 and 36, Bass discloses that the contents of the backpressure message indicates that at least one fill-level threshold for a packet queue has been crossed (Abstract; A "back pressure" system keeps a flow from being selected if its output cannot accept an additional frame because the current level of that port queue exceeds a threshold).

5. Claims 24-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bass et al. (US 6952424) in view of Anderson et al. (US 2006/0248242), in view of Khotimsky et al. (US 6788686), and further in view of Trinth et al. (US 2004/0015599).

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lines 48-57).

Regarding claim 24, Bass discloses a traffic flow control system for controlling a flow of ingress data packets to be transmitted over a link (Col. 1; lines 65-67; The present invention includes an improved system and method for scheduling the distribution of information units from a flow control system coupled to a plurality of network processing units toward a data transmission network through a MAC), the traffic flow control system comprising:

a first rate limiter configured to provide an amount of rate limiting to a flow queue ingress data packets, the amount of rate limiting being dependent upon a first weighting factor (Col. 3; lines 32-36; Col. 6; line 63... Col. 7, line 7); and

a controller configured to (claim 6; controller):

receive a backpressure signal (Col. 8; lines 48-50; a backpressure is sent to the transmitter preventing frames from being sent out that the system cannot handle)

determine a first weighting factor value to be applied to the flow of ingress data packets based on the received backpressure signal (Col. 8; lines 45-50; claim 2; providing a back pressure indicator signal to said weighted fair calendar when an output queue associated with said weighted fair

Bass does not explicitly disclose that the flow queue is a first portion of the flow.

calendar is not empty, preventing that output queue from being selected during the time cycle), and

adjust an amount of rate limiting applied to the first portion of the flow of ingress data packets by

adjusting the first weighting factor used by the first rate limiter (Col. 8; lines 40-50; claim 4; Col. 9;

In an analogous art, Khotimsky discloses that the flow queue is a first portion of the flow (Col. 4; lines 11-25; flow is split into different portions and the flow is controlled for each portion). It would have been obvious to one of ordinary skill in the art at the time of invention was made to

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modify Bass's method by adding the limitation of Khotimsky in order to dynamically manage different portions of flows based on their corresponding egress buffer fill level.

Bass discloses adjusting an amount of rate limiting applied to at least a portion of the flow of data packets based on the determined at least one weighting factor to be applied to the flow of data packets (Col. 7; lines 46-50; claim 2 and 6; providing a back_pressure indicator signal to said weighted fair calendar when an output queue associated with said weighted fair calendar is not empty, preventing that output queue from being selected during the time cycle and the back pressure controller includes at least one port queue and a threshold that limits the amount of information unit to be accommodated in said queue).

Bass does not explicitly state that the adjustment of the rate is based on both the determined at least one weighting factor and a content of the backpressure signal.

In an analogous art, Trinth discloses that the adjustment of the rate is based (¶ 233; The back-pressure management system includes components from the ingress network processor and the egress network processor. The switch fabric sends flow-control information to the egress network processor so that it can inform the ingress network processor not to send data to a particular one of the logical output ports. An I/O unit of the egress network processor forwards the control portion of the flow-control information to control input storage. The data portion is forwarded to the data input storage. An IPU fetches the flow-control information from the control input storage and decodes it and sends to an IPU a back-pressure message that includes the logical port number to which data should not be sent. The IPU sets a value within the BPLUT corresponding to the logical port so that it indicates that data should not be sent to that logical port number specified by the information.) on both the determined at least one weighting factor and a content of the backpressure signal (¶ 180 and 234; the rate of the flow is controlled based on the

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information received from the congestion message/backpressure message and the weight stored in the back pressure look up table (BPLUT) for each priority of COS.

The traffic processing unit (TPU) checks the BPLUT before scheduling a flow for forwarding by the FPU. The TPU uses the "Egress Port" and the "Priority" fields within the "TPI" to form the logical port to check against the BPLUT. If the BPLUT indicates that data should not be sent to this logical port, the TPU does not schedule a forwarding command for this flow to the FPU. When this logical port is again available, the TPU may then schedule a selected flow that uses the logical port by sending a forwarding command corresponding to this flow to the FPU command storage. Using the scheduling command, the FPU fetches from the storage unit an information segment belonging to the selected flow and sends it to a switch fabric control unit ("SFC") for framing before sending to the I/O unit to forward to the switch fabric. The TPU scheduler also reads a status within the backpressure lookup table (BPLUT). The backpressure lookup table is stored in an internal SSRAM. The backpressure look up table contains the congestion status of the logical ports. Each logical port is associated with a CoS (e.g., priority) of a corresponding physical port. Therefore, since the network processor of the example herein has up to 256 priorities (8 weight bits) for 16 physical ports, there are 256.times.16=4096 logical ports. If a bit within the backpressure table is set to one, the corresponding logical port is congested. Otherwise, the corresponding port is not congested. Each entry of the BPLUT may be set by a congestion message from the corresponding logical port). It would have been obvious to one of ordinary skill in the art at the time of invention was made to modify Bass's method by adding the limitation of Trinth in order to improve network performance by reducing network congestion based on the priorities set to different flows.

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Regarding claim 25, Bass discloses a traffic flow control system for controlling a flow of ingress data packets to be transmitted over a link (Col. 1; lines 65-67; The present invention includes an improved system and method for scheduling the distribution of information units from a flow control system coupled to a plurality of network processing units toward a data transmission network through a MAC), the traffic flow control system comprising:

a second rate limiter configured to provide an amount of rate limiting to a flow queue ingress data packets, the amount of rate limiting being dependent upon a first weighting factor (Col. 3; lines 32-36; Col. 6; line 63... Col. 7, line 7); and

a controller configured to (claim 6; controller):

receive a backpressure signal (Col. 8; lines 48-50; a backpressure is sent to the transmitter preventing frames from being sent out that the system cannot handle)

determine a first weighting factor value to be applied to the flow of ingress data packets based on the received backpressure signal (Col. 8; lines 45-50; claim 2; providing a back pressure indicator signal to said weighted fair calendar when an output queue associated with said weighted fair calendar is not empty, preventing that output queue from being selected during the time cycle), and adjust an amount of rate limiting applied to the first portion of the flow of ingress data packets by adjusting the first weighting factor used by the first rate limiter based on the determined first weighting factor value (Col. 8; lines 40-50; claim 4; Col. 9; lines 48-57).

Bass does not explicitly disclose that the flow queue is a second portion of the flow.

In an analogous art, Khotimsky discloses that the flow queue is a second portion of the flow (Col. 4; lines 11-25; flow is split into different portions and the flow is controlled for each portion). It would have been obvious to one of ordinary skill in the art at the time of invention was made to

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modify Bass's method by adding the limitation of Khotimsky in order to dynamically manage

different portions of flows based on their corresponding egress buffer fill level.

Regarding claim 26, Bass further discloses that the backpressure signal is a backpressure

message that indicates a tilt level state of at least one packet queue (Abstract and Col. 7; lines 46-50;

A "back pressure" system keeps a flow from being selected if its output cannot accept an additional

frame because the current level of that port queue exceeds a threshold. This system provides a form

of back pressure to limit the output, preventing frames from being sent out that the system cannot

handle).

Regarding claim 27, Bass further discloses that in determining the first weighting factor

value, the controller is configured to read the first weighting factor value from a mapping of various

fill level states for the at least one packet queue to various weighting factor values (Col. 7; lines 46-

50; claim 2 and 6; providing a back pressure indicator signal to said weighted fair calendar when an

output queue associated with said weighted fair calendar is not empty, preventing that output queue

from being selected during the time cycle and the back pressure controller includes at least one port

queue and a threshold that limits the amount of information unit to be accommodated in said

queue)

Regarding claim 28, Bass further discloses that the controller is further configured to

generate a traffic preference message for transmission to a source of the flow of ingress data packets

(Col. 9; lines 11-14), the traffic preference message indicating a type of data packet preferred for

transmission over the serial link in accordance with the determined first weighting factor value (Col.

9; lines 11-24).

Regarding claims 29, Bass discloses that the contents of the backpressure message indicates

that at least one fill-level threshold for a packet queue has been crossed (Abstract; A "back pressure"

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system keeps a flow from being selected if its output cannot accept an additional frame because the

current level of that port queue exceeds a threshold).

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to SAMINA CHOUDHRY whose telephone number is (571)270-7102. The

examiner can normally be reached on Monday to Thursday (7:30 a.m. to 5.00p.m.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Yemane Mesfin can be reached on (571)272-3927. The fax phone number for the organization

where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications may

be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR system,

see http://pair direct.uspto.gov. Should you have questions on access to the Private PAIR system,

contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance

from a USPTO Customer Service Representative or access to the automated information system, call

800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/SAMINA CHOUDHRY/

Examiner, Art Unit 2462

EAST Search History

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	10040	(back pressure or paus\$3 or halt\$3 or stop\$4) same (congestion or congest\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L2	979	(back pressure or paus\$3 or halt\$3 or stop\$4) same (congestion or congest\$3) same (flow near2 control\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L3	466	(back pressure or paus\$3 or halt\$3 or stop\$4) with (congestion or congest\$3) with (flow near2 control\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L4	94435	(back pressure or paus\$3 or halt\$3 or stop\$4) with (weigh\$3 or weight)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L5	3	L3 and (back pressure or paus\$3 or halt\$3 or stop\$4) with (weigh\$3 or weight)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L6	3	L3 and ((back pressure or paus\$3 or halt\$3 or stop\$4) with (weigh\$3 or weight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L7	1	"13360310"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L8	2	"6570848".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L9	4	"6031821".pn.	US-PGPUB; USPAT;	A DJ	ON	2015/03/06 19:43

L18

L19

92

'6324165".pn.

"6788686"

Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 213 of 328 USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB L10 6 US-PGPUB: ADJ ON 2015/03/06 L8 or L9 USPAT; 19:43 USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB L11 2 L10 and (weigh\$4) US-PGPUB; ADJ ON 2015/03/06 USPAT; 19:43 USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB L12 US-PGPUB; ON L3 and (back pressure or paus\$3 or ADJ 2015/03/06 halt\$3 or stop\$4) with (weigh\$3 or USPAT; 19:43 weight or proportion) USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB US-PGPUB; ADJ ON 2015/03/06 L13 L12 not L6 USPAT; 19:43 USOCR; FPRS; EPO; JPO; DERWENT: IBM_TDB L14 10 L3 and (back pressure or paus\$3 or US-PGPUB; ADJ ON 2015/03/06 halt\$3 or stop\$4) with (weigh\$3 or USPAT; 19:43 USOCR; FPRS; weight or proportion or percentage or percent) EPO; JPO; DERWENT; IBM_TDB L15 "6170022".pn. US-PGPUB; ADJ ON 2015/03/06 USPAT; 19:43 USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB L16 US-PGPUB; ADJ ON 2015/03/06 L15 and (percent or percentage or USPAT: 19:43 pause) USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB L17 US-PGPUB: ADJ 2015/03/06 L15 and (percent\$3) ON USPAT; 19:43 USOCR; FPRS; EPO; JPO; DERWENT;

> IBM_TDB US-PGPUB;

USPAT;

USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB

US-PGPUB;

USPAT;

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			4 01 320
L20	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L21	5	L18 or L20	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L22	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L23	2	L21 and (backpressure or back pressure or paus\$3 or halt\$3 or stop\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L24	2	L23 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L25	3	"20130132573"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L26	1	L25 and (embed\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L27	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L28	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L29	5	L27 or L28	US-PGPUB; USPAT;	A DJ	ON	2015/03/06 19:43

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
L30	3	L29 and (flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L31	3	L29 and (flow or (backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L32	3	L29 and (flow or (backpressure or back pressure) or (weigh\$3 or weight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L33	1	L29 and ((backpressure or back pressure or paus\$3 or halt\$3) with (weigh\$3 or weight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L34	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L35	1	L34 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L36	1	L34 and ((weight or weigh\$3) with (back pressure or halt or paus\$3 or stop\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L37	1	L34 and ((weight or weigh\$3) and (back pressure or halt or paus\$3 or stop\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L38	2	"6967923".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L39	1	L38 and (weight\$3 or weigh\$3)	US-PGPUB; USPAT;	ADJ	ON	2015/03/06 19:43

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Ca	ase 6:20)-cv-00497-ADA Document 66	5-11 Filed 04	4/09/21 F	Page 210	6 of 328
			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
L40	2	L29 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L41	1	L29 and ((weight or weigh\$3) with (paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L42	1	L29 and ((weight or weigh\$3) same (paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L43	316404	((weight or weigh\$3) same (paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L44	94795	((weight or weigh\$3)with (paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	ADJ	ON	2015/03/06 19:43
L45	4720	L44 and (flow near2 control)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L46	1674	L45 and ((adjust\$3 or chang\$3 or modif\$5) with (weight or weigh\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L47	43	L45 and ((adjust\$3 or chang\$3 or modif\$5) with (weight or weigh\$3) with (back pressure or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L48	49	L45 and ((adjust\$3 or chang\$3 or modif\$5) with (weight or weigh\$3) with (back pressure or backpressure or paus\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L49	459	L45 and ((adjust\$3 or chang\$3 or modif\$5) with (weight or weigh\$3)	US-PGPUB; USPAT;	A DJ	ON	2015/03/06 19:43

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Ca	ase 6:20	O-cv-00497-ADA Document 60 with (back pressure or backpressure or paus\$3 or halt\$3 or stop\$4))	USOCR; FPRS;	4/09/21 I	Page 21	7 of 328
L50	1	"13360310"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L51	3	L48 and (network)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L52	75	L49 and (network)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L53	27	L49 and (network and (packet or frame))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L54	23915	(network and (weight or weigh\$3) same (paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	ADJ	ON	2015/03/06 19:43
L55	493	(network and (weight or weigh\$3) with (paus\$3 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L56	26	L55 and (network with (flow near2 control\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L57	166	L55 and ((flow near2 control\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L58	3	"20060187945"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L59	2	L58 and (weight\$3 or weigh\$3)	US-PGPUB; USPAT;	ADJ	ON	2015/03/06 19:43

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
L60	2	"20040257997"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L61	2	L60 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L62	1	L60 and ((weight or weigh\$3) with (backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L63	14	"7701957".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L64	2	L63 and (backpressure or back pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L65	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L66	1	L65 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L67	1	L65 and (weight or weigh\$3 or back prssure or pause or backpressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L68	1	L65 and (weight or weigh\$3 or back presure or pause or backpressure or halt or stop\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L69	1	L65 and (back)	US-PGPUB; USPAT;	ADJ	ON	2015/03/06 19:43

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USOCR; FPRS;

EPO; JPO;

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
L70	1	L65 and (flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L71	1	L65 and (flow and back)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L72	1	L65 and (paus\$3 or stop\$4 or halt\$3 or back)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L73	5	"20020091527"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L74	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L75	1	L74 and (congest\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L76	1	L74 and ((back pressure or pause or halt\$3 or stop\$4 or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L77	1	L74 and (congest\$5 and (back pressure or pause or halt\$3 or stop\$4 or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L78	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L79	1	L78 and (congest\$5)	US-PGPUB; USPAT;	A DJ	ON	2015/03/06 19:43

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
L80	1	L78 and (congest\$5 and (back pressure or pause or halt\$3 or stop\$4 or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L81	13	"7802028".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L82	1	L81 and (congest\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L83	1	L81 and (congest\$4 same (stop\$3 or paus\$3 or stop\$4 or halt\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L84	3	"20060248242"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L85	2	L84 and (congestion same pause)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L86	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L87	1	L86 and (weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L88	1	L86 and (weigh\$3 and (pause or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L89	2	L84 and (backpressure or back pressure or halt\$3 or stop\$4 or	US-PGPUB; USPAT;	ADJ	ON	2015/03/06 19:43

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		pause)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
L90	2	L84 and ((backpressure or back pressure or halt\$3 or stop\$4 or pause) and (weigh\$3 or weight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L91	2	L84 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L92	1	L86 and ((pause or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L93	2	L86 and (threshold or level or limit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L94	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L95	1	L94 and (Flow or pause or stop\$3 or halt\$3 or backpressure or back pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L96	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L97	1	L96 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L98	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L99	1	L98 and ((weight or weigh\$3) with (back pressure or backpressure))	US-PGPUB; USPAT;	A DJ	ON	2015/03/06 19:43

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Ca	ase 6:20	D-cv-00497-ADA Document 6	6-11 Filed 04	4/09/21 H	₽age 22	2 of 328
			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
L100	1	L98 and ((weight or weigh\$3) and (back pressure or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L101	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L102	1	L101 and (indicator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L103	1	L94 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L104	1	L94 and (control\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	ADJ	ON	2015/03/06 19:43
L105	3	"20060248242"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L106	2	L105 and (control\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L107	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L108	1	L107 and (controller)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L109	1	L96 and (controller with pause or stop\$3 or halt\$3)	US-PGPUB; USPAT;	ADJ	ON	2015/03/06 19:43

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Ca	ise 6:20)-cv-00497-ADA Document 6	6-11 Filed 04	4/09/21 F	2age 22	3 of 328
			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
L110	1	L96 and (controller with pause or stop\$3 or halt\$3 or back pressure or backpressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L111	1	L98 and (controller with pause or stop\$3 or halt\$3 or back pressure or backpressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L112	1	L96 and (controller with pause or stop\$3 or halt\$3 or back pressure or backpressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L113	1	L98 and (portion or part)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L114	1	L94 and (portion)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L115	6	"11907871"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L116	3	"8130649".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L117	2	L116 and (set near2 weigh\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L118	1	L116 and (set near2 weigh\$4).dm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L119	1	L116 and (cross\$3 or threshold).clm.	US-PGPUB; USPAT;	ADJ	ON	2015/03/06 19:43

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Ca	ase 6:20)-cv-00497-ADA Document 66	5-11 Filed 04	4/09/21 F	² age 22	4 01 328
			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
L120	1	"13360310"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L121	1	L120 and (control\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L122	40045	h04l47/10.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L123	5487	h04l12/5602.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L124	2890	h04l2012/5636.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L125	22835	h04l5/0053.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L126	68391	L122 or L123 or L124 or L125	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L127	33	L126 and ((weight or weigh\$3) with (paus or halt\$3 or stop\$4 or back pressure or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L128	37	L126 and ((weight or weigh\$3) with (pause or halt\$3 or stop\$4 or back pressure or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L129	131	L126 and ((weight or weigh\$3) same (pause or halt\$3 or stop\$4 or	US-PGPUB; USPAT;	ADJ	ON	2015/03/06 19:43

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Ca	ase 6:20	D-cv-00497-ADA Document 66		4/09/21 F	age 22!	5 of 328
		back pressure or backpressure))	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
L130	72	L129 and (network with flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L131	54019	370/329,335,464,465,468.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L132	7966	L131 and (pause or halt\$3 or stop\$4 or back pressure or backpressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L133	26	L131 and ((weight or weigh\$3) with (pause or halt\$3 or stop\$4 or back pressure or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L134	2	L130 and L133	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L135	24	L133 not L134	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L136	2	L135 and (network with flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43
L137	15	L135 and (network and flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:43

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EAST Search History

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	15791	(halt\$3 paus\$3 backpressure) and (network with flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/03/06 19:48
L2	1487	L1 and (congest\$4 with flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/03/06 19:48
L3	85	L1 and ((halt\$3 paus\$3 backpressure) with (weight or weigh\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/03/06 19:48
L4	85	L1 and ((halt\$3 paus\$3 backpressure) with (weight weigh\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/03/06 19:48
L5	2	L1 and ((backpressure near5 signal) with (weight weigh\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/03/06 19:48
L6	33	L1 and ((backpressure) with (weight weigh\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/03/06 19:48
L7	1	"13360310"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/03/06 19:48
L8	80	L1 and ((backpressure) same (weight weigh\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/03/06 19:48
L9	1468	L1 and ((backpressure back adj\$3 pressure) same (weight weigh\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/03/06 19:48
L10	41	L1 and ((backpressure or back near2 pressure) with (weight or weigh\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L11	15791	(halt\$3 paus\$3 backpressure) and (network with flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/03/06 19:48
L12	111	L11 and ((backpressure or back near2 pressure) same (weight or weigh\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48

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L13	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L14	1	L13 and (weight\$3 or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L15	1	L13 and ((weight\$3 or weigh\$3) same (paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L16	1	L13 and ((paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L17	2	"13330365"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L18	2	L17 and (relative with occupancy)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L19	2	L17 and (relative)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L20	5	"7023857".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L21	1	L20 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L22	9	"20040015599"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L23	2	L22 and (back pressure or backpressure or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L24	2	L22 and (congest\$5 with message)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L25	2	L22 and (bplut or table)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L26	3	L22 and (bplut or table or congest\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L27	2	L22 and (back pressure or back pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO;	A DJ	ON	2015/03/06 19:48

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C	ase 6:	20-cv-00497-ADA Docum	JPO; DERWENT;	4/09/21	Page 2	28 of 328
L28	4	7983287".pn.	IBM_TDB US-PGPUB; USPAT;	ADJ	ON	2015/03/06
ш.	,	7000Z07 .pm.	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	OI •	19:48
L29	1	L28 and (weigh\$3 or weight\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L30	1	L28 and ((weigh\$3 or weight\$3) same (backpressure or back pressure or halt\$3 or stop\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L31	3	L22 and (bplut or table or congest\$4 or weigh\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L32	9	"20040015599"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L33	2	L32 and (back pressure or backpressure or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L34	2	L33 and (rate or speed or fast\$3 or slow\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L35	3	L32 and (congest\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L36	3	L32 and (flow with control\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L37	2	L32 and (tpu)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L38	15791	(halt\$3 paus\$3 backpressure) and (network with flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/03/06 19:48
L39	1487	L38 and (congest\$4 with flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/03/06 19:48
L40	85	L38 and ((halt\$3 paus\$3 backpressure) with (weight or weigh\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/03/06 19:48
L41	85	L38 and ((halt\$3 paus\$3 backpressure) with (weight weigh\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/03/06 19:48

	ase o.	20-cv-00497-ADA Docume	SULOD-TT FIIEU 04	+/09/21	Page 22	9 01 320
L42	2	11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/03/06 19:48
L43	33	L38 and ((backpressure) with (weight weigh\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/03/06 19:48
L44	1	"13360310"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/03/06 19:48
L45	80	L38 and ((backpressure) same (weight weigh\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/03/06 19:48
L46	1468	L38 and ((backpressure back adj\$3 pressure) same (weight weigh\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/03/06 19:48
L47	41	L38 and ((backpressure or back near2 pressure) with (weight or weigh\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L48	15791	(halt\$3 paus\$3 backpressure) and (network with flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/03/06 19:48
L49	111	L48 and ((backpressure or back near2 pressure) same (weight or weigh\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L50	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L51	1	L50 and (weight\$3 or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L52	1	L50 and ((weight\$3 or weigh\$3) same (paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L53	1	L50 and ((paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L54	2	"13330365"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L55	2	L54 and (relative with occupancy)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L56	2	L54 and (relative)	US-PGPUB; USPAT; USOCR; FPRS; EPO;	ADJ	ON	2015/03/06 19:48

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	ase o	:20-cv-00497-ADA Docume	JPO; DERWENT; IBM_TDB	4/09/21	Page 2	30 of 328
L57	5	"7023857".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L58	1	L57 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L59	9	"20040015599"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L60	2	L59 and (back pressure or backpressure or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L61	2	L59 and (congest\$5 with message)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L62	2	L59 and (bplut or table)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	A DJ	ON	2015/03/06 19:48
L63	3	L59 and (bplut or table or congest\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	A DJ	ON	2015/03/06 19:48
L64	2	L59 and (back pressure or back pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L65	4	"7983287".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L66	1	L65 and (weigh\$3 or weight\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L67	1	L65 and ((weigh\$3 or weight\$3) same (backpressure or back pressure or halt\$3 or stop\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L68	3	L59 and (bplut or table or congest\$4 or weigh\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L69	9	"20040015599"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L70	2	L69 and (back pressure or backpressure or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	ADJ	ON	2015/03/06 19:48

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L71	2	L70 and (rate or speed or fast\$3 or slow\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L72	3	L69 and (congest\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L73	3	L69 and (flow with control\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48
L74	2	L69 and (tpu)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:48

3/6/2015 7:51:45 PM

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Search Notes



Application/Control No.	Applicant(s)/Patent Under Reexamination
13360310	MADSEN ET AL.
Examiner	Art Unit
SAMINA CHOUDHRY	2462

CPC- SEARCHED		
Symbol	Date	Examiner
H04L 47/10	3/20/2014	SC

CPC COMBINATION SETS - SEAR	CHED	
Symbol	Date	Examiner
H04L 5/0053, H04L 12/5602, H04L 2012/5636	03/20/2014	SC

US CLASSIFICATION SEARCHED				
Class	Subclass	Date	Examiner	
		03/19/2014		

SEARCH NOTES						
Search Notes	Date	Examiner				
EAST search with all databases						
keyword search	03/19/2014	SC				
370/235,229,464,465,468	03/19/2014	SC				
Assignee and Inventorship Search done	03/19/2014	SC				
Updated EAST search	07/15/2014	SC				
UpdatedAssignee and Inventorship Search done	07/15/2014	SC				
Updated EAST search	08/08/2014	SC				
UpdatedAssignee and Inventorship Search done	08/08/2014	SC				
Updated EAST search	02/20/2015	SC				
UpdatedAssignee and Inventorship Search done	02/20/2015	SC				

INTERFERENCE SEARCH				
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner	
	Please see the attached EAST search history.	08/09/2014	SC	

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U.S. Patent and Trademark Office Part of Paper No.: 20150206

EAST Search History

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	5	"20020091527"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L2	1486	harper.xp.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L3	1	L1 and (speech near2 subroutine)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L4	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L5	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L6	4	L4 or L5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L7	3	L6 and (program or code or instructions or software or computer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L8	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L9	1	L8 and (program or code or instructions or software or computer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L10	1	L6 and (pause or halt\$3 or stop\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L11		L6 and (pause or halt\$3 or stop\$4 or backpressure or back pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L12		"6788686"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L13	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L14	1	L13 and (pause or halt\$3 or stop\$4 or backpressure or back pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L15	1	L5 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L16	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	ADJ	ON	2015/03/06 19:37

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L		.20-CV-00497-ADA D0C	DERWENT; IBM_TDB		***************************************	
L17	1	L16 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L18	5	"20020091527"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L19	1486	harper.xp.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L20	1	L18 and (speech near2 subroutine)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L21	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L22	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L23	4	L21 or L22	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L24	3	L23 and (program or code or instructions or software or computer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L25	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L26	1	L25 and (program or code or instructions or software or computer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L27	1	L23 and (pause or halt\$3 or stop\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L28	2	L23 and (pause or halt\$3 or stop\$4 or backpressure or back pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L29	92	"6788686"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L30	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L31	1	L30 and (pause or halt\$3 or stop\$4 or backpressure or back pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L32	1	L22 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L33	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37
L34	1	L33 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/03/06 19:37

3/6/2015 7:40:27 PM

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
13/360,310	01/27/2012	John Madsen	ALC 3328-CON	1373	
⁷⁶⁶¹⁴ Terry W. Kram	7590 03/20/201 er. Esa.	5	EXAMINER		
Kramer & Amado, P.C. 330 John Carlyle Street			CHOUDHRY, SAMINA F		
3rd Floor			ART UNIT	PAPER NUMBER	
Alexandria, VA	Alexandria, VA 22314		2462		
			NOTIFICATION DATE	DELIVERY MODE	
			03/20/2015	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mail@krameramado.com

Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 237 of 328

	Application No.	Applicant(s)				
Examiner-Initiated Interview Summary	13/360,310	MADSEN ET AL.				
Examiner initiated interview canimary	Examiner	Art Unit				
	SAMINA CHOUDHRY	2462				
All participants (applicant, applicant's representative, PTO personnel):						
(1) <u>SAMINA CHOUDHRY</u> .	(3)					
(2) <u>Patric Wamsley</u> .	(4)					
Date of Interview: <u>03/16/2015</u> .						
Type: Telephonic Video Conference Personal [copy given to: applicant applicant's representative]						
Exhibit shown or demonstration conducted: Yes No. If Yes, brief description:						
Issues Discussed 101 112 102 103 0thers (For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)						
Claim(s) discussed: Independent claims and claim 27.						
Identification of prior art discussed:						
Substance of Interview (For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc)						
Examiner explained to the applicant that prior art rejection was maintained after re-opening the proseuction because both conferees agreed with the prior art rejection. The prosecution was re-opened to address the header and missed limitation for claim 24 in final rejection. Examiner agreed with the applican that claim 27 is objected to as being dependent upon a rejected base claim, but would be allowable if overcome claim objection and rewritten in independent form including all of the limitations of the base claim and any intervening claims.						
Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview. Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of						
the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.						
Attachment						
/SAMINA CHOUDHRY/ Examiner, Art Unit 2462						

U.S. Patent and Trademark Office PTOL-413B (Rev. 8/11/2010) UNITED STATES PATENT AND TRADEMARK OFFICE COMMISSIONER FOR PATENTS P.O.BOX 1450 ALEXANDRIA VA 22313-1451 PRESORTED FIRST-CLASS MAIL U.S. POSTAGE PAID POSTEDIGITAL NNNNN

Terry W. Kramer, Esq. Kramer & Amado, P.C. 330 John Carlyle Street 3rd Floor Alexandria, VA 22314

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Courtesy Reminder for Application Serial No: 13/360,310

Attorney Docket No: ALC 3328-CON

Customer Number: 76614

Date of Electronic Notification: 03/13/2015

This is a courtesy reminder that new correspondence is available for this application. If you have not done so already, please review the correspondence. The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

An email notification regarding the correspondence was sent to the following email address(es) associated with your customer number: mail@krameramado.com

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair. If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov or call 1-866-217-9197.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : John Madsen, et al.

:

INGRESS TRAFFIC CONTROL IN A

DATA COMMUNICATIONS SYSTEM

Serial No. : 13/360,310

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Filed: January 27, 2012

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Art Unit : 2462

Examiner : Samina F. Choudhry

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Att. Docket : ALC 3328-CON

:

Confirmation No. : 1373

APPEAL BRIEF

Mail Stop Appeal Brief Patents Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Appellant respectfully submits this Appeal Brief in response to the Office Action of March 13, 2015, and in support of the Notice of Appeal filed herewith.

I. REAL PARTY IN INTEREST

The party in interest is Alcatel Lucent, by way of an Assignment recorded at Reel 027610, frame 0953.

II. SUMMARY OF CLAIMED SUBJECT MATTER

The following summary refers to the specification of the present application by paragraph and line numbers.

The subject matter recited in independent claim 17 includes: "A method performed by a traffic flow control system (Fig. 1: 10; paragraph [0012], line 1) for performing flow control on a flow of data packets for transmission over a link, the method comprising: receiving, by a controller (Fig. 1: 42; paragraph [0012], line 13) of the traffic flow control system (Fig. 1: 10; paragraph [0012], line 1), a backpressure signal (Fig. 1: 40; paragraph [0015], line 2), wherein the backpressure signal (Fig. 1: 40; paragraph [0015], line 2) indicates a period of congestion; determining, by the controller (Fig. 1: 42; paragraph [0012], line 13) of the traffic flow control system (Fig. 1: 10; paragraph [0012], line 1), at least one weighting factor (Fig. 1: W1; paragraph [0015], line 12) to be applied to the flow of data packets based on the received backpressure signal (Fig. 1: 40; paragraph [0015], line 2); and adjusting an amount (paragraph [0016], lines 8-10) of rate limiting applied to at least a portion of the flow of data packets based on both the determined at least one weighting factor (Fig. 1: W1; paragraph [0015], line 12) and a content (Fig. 1: BP; paragraph [0015], line 2) of the backpressure signal (Fig. 1: 40; paragraph [0015], line 2)."

The subject matter recited in independent claim 24 includes: "A traffic flow control system (Fig. 1: 10; paragraph [0012], line 1) for controlling a flow of ingress data packets to be transmitted over a link, the traffic flow control system (Fig. 1: 10; paragraph [0012], line 1) comprising: a first rate limiter (Fig. 1: 20; paragraph [0012], line 7) configured to provide an amount (paragraph [0016], lines 8-10) of rate limiting to a first portion of the flow of ingress data packets, the amount (paragraph [0016], lines 8-10) of rate limiting being dependent upon a first weighting factor (Fig. 1: W1; paragraph [0015], line 12); and a controller (Fig. 1: 42; paragraph [0012], line 13) configured to: receive a backpressure signal (Fig. 1: 40; paragraph [0015], line 2), determine a first weighting factor value (Fig. 1: W1; paragraph [0015], line 12) to be applied to the flow of ingress data packets based

on the received backpressure signal (Fig. 1: 40; paragraph [0015], line 2), and adjust an amount (paragraph [0016], lines 8-10) of rate limiting applied to the first portion of the flow of ingress data packets by adjusting the first weighting factor (Fig. 1: W1; paragraph [0015], line 12) used by the first rate limiter (Fig. 1: 20; paragraph [0012], line 7) based on both the determined first weighting factor value (Fig. 1: W1; paragraph [0015], line 12) and a content (Fig. 1: BP; paragraph [0015], line 2) of the backpressure signal (Fig. 1: 40; paragraph [0015], line 2)."

The subject matter recited in independent claim 30 includes: "A non-transitory machine-readable storage medium encoded with instructions for execution by a traffic flow control system (Fig. 1: 10; paragraph [0012], line 1) for performing flow control on a flow of data packets for transmission over a link, the non-transitory machine-readable storage medium comprising: instructions for receiving, by a controller (Fig. 1: 42; paragraph [0012], line 13) of the traffic flow control system (Fig. 1: 10; paragraph [0012], line 1), a backpressure signal (Fig. 1: 40; paragraph [0015], line 2) indicates a period of congestion; instructions for determining, by the controller (Fig. 1: 42; paragraph [0012], line 13) of the traffic flow control system (Fig. 1: 10; paragraph [0012], line 1), at least one weighting factor (Fig. 1: W1; paragraph [0015], line 12) to be applied to the flow of data packets based on the received backpressure signal (Fig. 1: 40; paragraph [0015], line 2); and instructions for adjusting an amount (paragraph [0016], lines 8-10) of rate limiting applied to at least a portion of the flow of data packets based on both the determined at least one weighting factor (Fig. 1: W1; paragraph [0015], line 12) and a content (Fig. 1: BP; paragraph [0015], line 2) of the backpressure (Fig. 1: 40; paragraph [0015], line 2)."

Application No. 13/360,310

Our Ref. No. ALC 3328-CON

III. ARGUMENT

A. Obviousness Rejections of Claims 17-19, 21-23, 30-32, 34-36

On pages 6-11, the Office Action rejects claims 17-19, 21-23, 30-32, and 34-36 under 35

U.S.C. § 103(a) as allegedly unpatentable over U.S. Patent No. 6,952,424 to Bass et al. ("Bass") in

view of Pub. No. US 2006/0248242 to Andersen et al. ("Andersen"), mistakenly listed as Anderson

in the Office Action, and further in view of Pub. No. US2004/0015599 to Trinh et al. ("Trinh"),

mistakenly listed at Trinth in the Office Action.

Rejections on obviousness grounds cannot be sustained with mere conclusory statements.

Instead, there must be some articulated reasoning with some rational underpinning to support the

legal conclusion of obviousness. See In re Kahn, 441 F.3d 977, 988 (Fed. Cir. 2006) and M.P.E.P.

2142. The final Office Action failed to provide articulated reasoning to support its obviousness

rejections. Hence, as described below, the final Office Action has failed to present a prima facie case

of obviousness for any of the rejected claims.

The USPTO bears the initial burden of showing a prima facie case of obviousness. See In re

Sullivan, 498 F.3d 1345, 1351 (Fed. Cir. 2007). When a prima facie case of obviousness is made, the

burden then shifts to the Applicant to come forward with evidence and/or argument supporting

patentability. See In re Glaug, 283 F.3d 1335, 1338 (Fed. Cir. 2002). Appellant respectfully submits

that the final Office Action did not carry the burden in this case.

- 4 -

Application No. 13/360,310

Our Ref. No. ALC 3328-CON

1. <u>Independent Claims 17 and 30</u>

Claim 17 recites, in part: "adjusting an amount of rate limiting applied to at least a portion

of the flow of data packets based on both the determined at least one weighting factor and a

content of the backpressure signal" (emphasis added). Similar subject matter appears in claim 30.

Appellant respectfully submits that the references of record fail to disclose, suggest, or teach this

subject matter.

On page 7, the Office Action concedes that Bass does not disclose this subject matter. To

remedy this deficiency, the Examiner cites various paragraphs from Trinh. However, the Examiner

fails to show adjustment of an amount of rate limiting based upon the two recited factors.

On page 3, the Examiner alleges that the claim language "does not disclose 'amount' means

how much amount." In response, Appellant respectfully submits that the plain meaning of the

claim language requires adjustment of the amount of rate limiting based on both the determined

at least one weighting factor and a content of the backpressure signal. Both factors determine "how

much amount."

Trinh does not adjust amounts of rate limiting. Instead, of controlling an amount, paragraph

[181] of Trinh discloses, for bit 63 of double word zero, "If this bit is set to one, then the flow is

valid. Otherwise, when . . . zero, the flow is invalid." Thus, it alternates between valid and invalid

flows rather than adjusting an amount of rate limiting as claimed. Accordingly, Trinh cannot remedy

the admitted deficiency of Bass.

Paragraph [0233] of Trinh discloses "flow control information" in the context of "sends

flow control information to the egress network processor 624 so that it can inform the ingress

network processor 622 not to send data." Paragraph [0234] of Trinh discloses, in part: "data should

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Application No. 13/360,310

Our Ref. No. ALC 3328-CON

not be sent to this logical port." Rather than adjusting an amount of rate limiting, Trinh stops all

data at a particular port.

As described above, the final Office Action did not present a prima facie case of obviousness.

The other references of record fail to remedy the deficiencies of Bass and Trinh. Thus, Appellant

respectfully submits that independent claims 17 and 30 are allowable over the references of record

and requests withdrawal of the rejections of claims 17 and 30.

- 6 -

2. Dependent Claims 18, 19, 21-23, 31, 32, and 34-36

Claims 18, 19, and 21-23 depend from claim 17. Claims 31, 32, and 34-36 depend from claim 30. Thus, claims 18, 19, 21-23, 31, 32, and 34-36 are allowable at least due to their respective dependencies from allowable base claims. Therefore, Appellant respectfully requests withdrawal of the rejections of claims 18, 19, 21-23, 31, 32, and 34-36.

B. Obviousness Rejections of Claims 24-26, 28, and 29

On pages 11-17, the Office Action rejects claims 24-29 under 35 U.S.C. § 103(a) as allegedly unpatentable over Bass in view of Andersen, further in view of U.S. Patent No. 6,788,686 to Khotimsky et al. ("Khotimsky"), and even further in view of Trinh. During an interview on March 16, 2015, Examiner Choudhry conceded that claim 27 contained allowable subject matter and should only be "objected to as being dependent upon a rejected base claim."

Application No. 13/360,310

Our Ref. No. ALC 3328-CON

1. <u>Independent Claim 24</u>

Claim 24 recites, in part: "adjust an amount of rate limiting applied to the first portion of

the flow of ingress data packets by adjusting the first weighting factor used by the first rate limiter

based on **both** the determined first weighting factor value and a **content** of the backpressure signal"

(emphasis added). Appellant respectfully submits that the references of record, alone or in

combination, fail to disclose, suggest, or teach this subject matter.

On page 13, the Office Action concedes that Bass does not disclose this subject matter. To

remedy this admitted deficiency, the Examiner cites various paragraphs from Trinh. However, the

Examiner fails to show adjustment of an amount of rate limiting based upon the two recited

factors. As described above, Trinh alternates between valid and invalid flows rather than adjusting

an amount of rate limiting as claimed.

Khotimsky fails to remedy the deficiencies of Bass in view of Andersen, and further in view

of Trinh. Thus, Applicant respectfully submits that claim 24 is allowable over the references of

record and requests withdrawal of the rejection of claim 24.

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2. <u>Dependent Claims 25, 26, 28, and 29</u>

Claims 25, 26, 28, and 29 depend from claim 24. Thus, claims 25, 26, 28, and 29 are allowable at least due to their dependencies from an allowable base claim. Therefore, Appellant respectfully requests withdrawal of the rejections of claims 25, 26, 28, and 29.

CONCLUSION

For at least the reasons discussed above, Appellant respectfully submits that the rejections are in error, and that claims 17-19, 21-26, 28-32, and 34-36 are in condition for allowance. Therefore, Appellant respectfully requests that this Honorable Board reverse the rejections of claims 17-19, 21-26, 28-32, and 34-36.

Respectfully submitted, KRAMER & AMADO, P.C.

Date: April 17, 2015 /Terry W. Kramer/

Terry W. Kramer Registration No. 41,541

KRAMER & AMADO, P.C. 330 John Carlyle Street, 3rd Floor Alexandria, VA 22314

Phone: 703-519-9801 Fax: 703-519-9802

IV. CLAIMS APPENDIX

CLAIMS INVOLVED IN THE APPEAL:

1-16. (Canceled)

17. (Rejected) A method performed by a traffic flow control system for performing flow control

on a flow of data packets for transmission over a link, the method comprising:

receiving, by a controller of the traffic flow control system, a backpressure signal, wherein

the backpressure signal indicates a period of congestion;

determining, by the controller of the traffic flow control system, at least one weighting factor

to be applied to the flow of data packets based on the received backpressure signal; and

adjusting an amount of rate limiting applied to at least a portion of the flow of data packets

based on both the determined at least one weighting factor and a content of the backpressure signal.

18. (Rejected) The method of claim 17, wherein the step of determining at least one weighting

factor comprises:

determining, based on the backpressure signal, a set of weighting factors; and

the step of adjusting the amount of rate limiting comprises:

adjusting an amount of rate limiting with respect to a first type of data packet traffic

based on a first weighting factor of the set of weighting factors, and

adjusting an amount of rate limiting with respect to a second type of data packet

traffic based on a second weighting factor of the set of weighting factors.

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19. (Rejected) The method of claim 17, wherein the backpressure signal is a backpressure

message that indicates a fill level state of at least one packet queue.

20. (Objected) The method of claim 19, wherein the step of determining at least one weighting

factor further comprises:

reading the at least one weighting factor from a mapping of various fill level states for the at

least one packet queue to various weighting factors.

21. (Rejected) The method of claim 17, further comprising:

receiving the backpressure signal from a downstream data processing unit.

22. (Rejected) The method of claim 17, further comprising:

generating a traffic preference message for transmission to a source of the flow of data

packets, the traffic preference message indicating a type of data packet preferred for transmission

over the serial link in accordance with the determined at least one weighting factor.

23. (Rejected) The method of claim 17, wherein the content of the backpressure message

indicates that at least one fill-level threshold for a packet queue has been crossed.

24. (Rejected) A traffic flow control system for controlling a flow of ingress data packets to be

transmitted over a link, the traffic flow control system comprising:

Application No. 13/360,310

Our Ref. No. ALC 3328-CON

a first rate limiter configured to provide an amount of rate limiting to a first portion of the

flow of ingress data packets, the amount of rate limiting being dependent upon a first weighting

factor; and

a controller configured to:

receive a backpressure signal,

determine a first weighting factor value to be applied to the flow of ingress data

packets based on the received backpressure signal, and

adjust an amount of rate limiting applied to the first portion of the flow of ingress

data packets by adjusting the first weighting factor used by the first rate limiter based on

both the determined first weighting factor value and a content of the backpressure signal.

25. (Rejected) The traffic flow control system of claim 24, further comprising:

a second rate limiter configured to provide an amount of rate limiting to a second portion of

the flow of ingress data packets that is different from the first portion of the flow of ingress data

packets, the amount of rate limiting of the second rate limiter being dependent upon a second

weighting factor, wherein the controller is further configured to determine a second weighting factor

value to be applied to the flow of ingress data packets based on the received backpressure signal,

and adjust an amount of rate limiting applied to the second portion of the flow of ingress data

packets by adjusting the second weighting factor used by the second rate limiter based on the

determined second weighting factor value.

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26. (Rejected) The traffic flow control system of claim 24, wherein the backpressure signal is a

backpressure message that indicates a fill level state of at least one packet queue.

27. (Objected) The traffic flow control system of claim 26, wherein, in determining the first

weighting factor value, the controller is configured to read the first weighting factor value from a

mapping of various fill level states for the at least one packet queue to various weighting factor

values.

28. (Rejected) The traffic flow control system of claim 24, wherein the controller is further

configured to generate a traffic preference message for transmission to a source of the flow of

ingress data packets, the traffic preference message indicating a type of data packet preferred for

transmission over the serial link in accordance with the determined first weighting factor value.

29. (Rejected) The traffic flow control system of claim 24, wherein the content of the

backpressure message indicates that at least one fill-level threshold for a packet queue has been

crossed.

30. (Rejected) A non-transitory machine-readable storage medium encoded with

instructions for execution by a traffic flow control system for performing flow control on a flow of

data packets for transmission over a link, the non-transitory machine-readable storage medium

comprising:

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Application No. 13/360,310

Our Ref. No. ALC 3328-CON

instructions for receiving, by a controller of the traffic flow control system, a backpressure

signal, wherein the backpressure signal indicates a period of congestion;

instructions for determining, by the controller of the traffic flow control system, at least one

weighting factor to be applied to the flow of data packets based on the received backpressure signal;

and

instructions for adjusting an amount of rate limiting applied to at least a portion of the flow

of data packets based on both the determined at least one weighting factor and a content of the

backpressure.

31. (Rejected) The non-transitory machine-readable storage medium of claim 30, wherein the

instructions for determining at least one weighting factor comprise

instructions for determining, based on the backpressure signal, a set of weighting factors;

and

the instructions for adjusting the amount of rate limiting comprise:

instructions for adjusting an amount of rate limiting with respect to a first type of data

packet traffic based on a first weighting factor of the set of weighting factors, and

instructions for adjusting an amount of rate limiting with respect to a second type of data

packet traffic based on a second weighting factor of the set of weighting factors.

32. (Rejected) The non-transitory machine-readable storage medium of claim 30, wherein the

backpressure signal is a backpressure message that indicates a fill level state of at least one packet

queue.

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33. (Objected) The non-transitory machine-readable storage medium of claim 32, wherein the

instructions for determining at least one weighting factor comprise:

instructions for reading the at least one weighting factor from a mapping of various fill level

states for the at least one packet queue to various weighting factors.

34. (Rejected) The non-transitory machine-readable storage medium of claim 30, wherein the

backpressure signal is received from a downstream data processing unit.

35. (Rejected) The non-transitory machine-readable storage medium of claim 30, further

comprising:

instructions for generating a traffic preference message for transmission to a source of the

flow of data packets, the traffic preference message indicating a type of data packet preferred for

transmission over the serial link in accordance with the determined at least one weighting factor.

36. (Rejected) The non-transitory machine-readable storage medium of claim 30, wherein the

content of the backpressure message indicates that at least one fill-level threshold for a packet queue

has been crossed.

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PTO/SB/31 (07-09) Approved for use through 07/31/2012. OMB 0651-0031

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T⊦	NOTICE OF APPEAL FROM THE EXAMINER TO THE BOARD OF PATENT APPEALS AND INTERFERENCES		ALC 3328-CON		
to the U	certify that this correspondence is being facsimile transmitted SPTO or deposited with the United States Postal Service with	In re Applicat Madsen e			
"Commi: 1450" [3	nt postage as first class mail in an envelope addressed to ssioner for Patents, P.O. Box 1450, Alexandria, VA 22313-37 CFR 1.8(a)]	Application Number 13/360,310		Filed January 27, 2012	
on		For Ingress	Traffic Control in	n a Data Communications System	
Signatur	re	Art Unit		Examiner	
Typed o	or printed	2462		Samina F. Choudhry	
Applicar	nt hereby appeals to the Board of Patent Appeals and Interferences	s from the last o	decision of the exa	aminer.	
The fee	for this Nation of Appendix (27 CER 41 20/b)(1)			s0-	
The lee	for this Notice of Appeal is (37 CFR 41.20(b)(1))			(reinstatement of Appeal)	
	applicant claims small entity status. See 37 CFR 1.27. Therefore, the y half, and the resulting fee is:	e fee shown ab	ove is reduced	\$	
□ A	check in the amount of the fee is enclosed.				
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	he Director has already been authorized to charge fees in this appli	ication to a Dep	posit Account.		
√ T	the Director is hereby authorized to charge any fees which may be a Deposit Account No. $\underline{500578}$	required, or cre	dit any overpayme	ent	
□ ^	a petition for an extension of time under 37 CFR 1.136(a) (PTO/SB/2	22) is enclosed			
W b	VARNING: Information on this form may become public. Credit e included on this form. Provide credit card information and au	t card informa uthorization or	tion should not n PTO-2038.		
I am the	3				
	pplicant/inventor.	/Terry	W. Kramer/		
	ssignee of record of the entire interest.	Terry	W Kramer	Signature	
	see 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. Form PTO/SB/96)		Terry W. Kramer Typed or printed name		
	attorney or agent of record. (70				
R	legistration number	· <u> </u>		ephone number	
	ttorney or agent acting under 37 CFR 1.34. tegistration number if acting under 37 CFR 1.34.	April	17, 2015		
				Date	
	NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.				

This collection of information is required by 37 CFR 41.31. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11, 1.14 and 41.6. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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The information provided by you in this form will be subject to the following routine uses:

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	nent 66-11 Filed 04/09/21 Page 258 of 328 knowledgement Receipt
EFS ID:	22098408
Application Number:	13360310
International Application Number:	
Confirmation Number:	1373
Title of Invention:	INGRESS TRAFFIC FLOW CONTROL IN A DATA COMMUNICATIONS SYSTEM
First Named Inventor/Applicant Name:	John Madsen
Customer Number:	76614
Filer:	Terry Wayne Kramer/wendy spradin
Filer Authorized By:	Terry Wayne Kramer
Attorney Docket Number:	ALC 3328-CON
Receipt Date:	17-APR-2015
Filing Date:	27-JAN-2012
Time Stamp:	16:37:49
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Appeal Brief Filed	Appeal_Brief.pdf	126495	no	17
			b87c6337530d55cb74981c27ed35705c5c6 e7d87		

Warnings:

Information:

	Case 6:20-cv-00497-ADA Do	ocument 66-11 Filed 04	/09/21 Page 250	nf 328 +		
2	Notice of Appeal Filed	NOT_APPEAL_2015.pdf	329152 	no	2	
Warnings:						
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	Total Files Size (in bytes): 455647					

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

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If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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NOTICE OF ALLOWANCE AND FEE(S) DUE

Terry W. Kramer, Esq. Kramer & Amado, P.C. 330 John Carlyle Street 3rd Floor Alexandria, VA 22314

10/08/2015

EXAMINER

CHOUDHRY, SAMINA F

ART UNIT PAPER NUMBER

2462

DATE MAILED: 10/08/2015

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/360,310	01/27/2012	John Madsen	ALC 3328-CON	1373

TITLE OF INVENTION: INGRESS TRAFFIC FLOW CONTROL IN A DATA COMMUNICATIONS SYSTEM

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$0	\$960	01/08/2016

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED.</u> SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

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If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

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76614 Terry W. Kran Kramer & Ama 330 John Carlyl	ner, Esq. do, P.C.	3/2015		hereby certify that the	nie Feets	of Mailing or Trans) Transmittal is being ficient postage for fir ISSUE FEE address 1) 273-2885, on the de	emission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
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Alexandria, VA	. 22314						(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR	ATTOR	RNEY DOCKET NO.	CONFIRMATION NO.
13/360,310	01/27/2012	•	John Madsen		A	LC 3328-CON	1373
TITLE OF INVENTION	N: INGRESS TRAFFIC F	FLOW CONTROL IN A	DATA COMMUNICA	ΓΙΟΝS SYSTEM			
APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE D	JE PREV. PAID ISSU	JE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$0		\$960	01/08/2016
EXAN	MINER	ART UNIT	CLASS-SUBCLASS	\neg			
CHOUDHRY, SAMINA F 2462		2462	370-235000				
1. Change of correspondence address or indication of "Fee Address" (37			2. For printing on the	ne patent front page, li	ist		
CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.			(1) The names of u or agents OR, altern	p to 3 registered pate natively.	nt attorn	eys 1	
"Fee Address" inc	dication (or "Fee Address 02 or more recent) attach	" Indication form	registered attorney or agent) and the names of up to				
3. ASSIGNEE NAME A	AND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print o	type)			
PLEASE NOTE: Un recordation as set for	lless an assignee is ident th in 37 CFR 3.11. Comp	ified below, no assignee pletion of this form is NC	data will appear on the data will appear on the DT a substitute for filing	e patent. If an assign an assignment.	nee is id	entified below, the d	ocument has been filed for
(A) NAME OF ASSI	IGNEE		(B) RESIDENCE: (C	ITY and STATE OR	COUNT	RY)	
Please check the appropr	riate assignee category or	categories (will not be p	erinted on the patent):	☐ Individual ☐ C	orporation	on or other private gro	oup entity 🚨 Government
4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): (ny previ	iously paid issue fee	shown above)
☐ Issue Fee☐ Publication Fee (1	No small entity discount p	permitted)	☐ A check is enclosed.☐ Payment by credit card. Form PTO-2038 is attached.				
Advance Order -	# of Copies		The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number (enclose an extra copy of this form				ficiency, or credits any
			overpayment, to D	eposit Account Nume	<u>. </u>	(eliciose a	il extra copy of this form).
_ ~ .	atus (from status indicate	· · · · · · · · · · · · · · · · · · ·	NOTE: AL.		T	C	0/00/154 1450) :
☐ Applicant certifying micro entity status. See 37 CFR 1.29			fee payment in the mi	cro entity amount wil	l not be a	accepted at the risk of	O/SB/15A and 15B), issue application abandonment.
☐ Applicant asserting small entity status. See 37 CFR 1.27			NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.				ing this box will be taken
Applicant changing to regular undiscounted fee status. NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or mi entity status, as applicable.				tlement to small or micro			
NOTE: This form must	be signed in accordance v	with 37 CFR 1.31 and 1.3	33. See 37 CFR 1.4 for s	ignature requirements	and cert	tifications.	
Authorized Signature	2			Date			
Typed or printed name			Registration No.				

Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 262 of 328



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/360,310	01/27/2012	John Madsen	ALC 3328-CON	1373
76614 75	90 10/08/2015		EXAM	INER
Terry W. Kramer			CHOUDHRY	, SAMINA F
Kramer & Amado,	P.C.			
330 John Carlyle S	treet		ART UNIT	PAPER NUMBER
3rd Floor			2462	
Alexandria, VA 22	314		DATE MAILED: 10/08/201	5

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- 1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
- 2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 264 of 328

	Application No.	Applicant(s)				
Examiner-Initiated Interview Summary	13/360,310	MADSEN ET AL.				
Examiner initiated interview cummary	Examiner	Art Unit				
	SAMINA CHOUDHRY	2462				
All participants (applicant, applicant's representative, PTO	personnel):					
(1) <u>SAMINA CHOUDHRY</u> .	(3)					
(2) <u>Patric Wamsley</u> .	(4)					
Date of Interview: 29 September 2015.						
Type: X Telephonic Video Conference Personal [copy given to: Applicant [applicant's representative]					
Exhibit shown or demonstration conducted: Yes If Yes, brief description:	□ No.					
Issues Discussed 2101 112 102 103 Other (For each of the checked box(es) above, please describe below the issue and details						
Claim(s) discussed: <u>24</u> .						
Identification of prior art discussed:						
Substance of Interview (For each issue discussed, provide a detailed description and indicate if agreement reference or a portion thereof, claim interpretation, proposed amendments, arguments.)		dentification or clarification of a				
Examiner proposed claim amendment to overcome 101 iss	ues. Applicant agreed with the	e proposed amendment.				
Applicant recordation instructions: It is not necessary for applicant to p	rovide a separate record of the substa	ance of interview.				
Examiner recordation instructions : Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.						
Attachment						
/SAMINA CHOUDHRY/ Primary Examiner, Art Unit 2462						

U.S. Patent and Trademark Office PTOL-413B (Rev. 8/11/2010)

	Application No. 13/360,310	Applicant(s) MADSEN ET AL.		
Notice of Allowability	Examiner SAMINA CHOUDHRY	Art Unit 2462	AIA (First Inventor to File) Status No	
The MAILING DATE of this communication appear. All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) of NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIC of the Office or upon petition by the applicant. See 37 CFR 1.313	OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not will be mailed	t included in due course. THIS	
 This communication is responsive to <u>08/12/2014</u>. A declaration(s)/affidavit(s) under 37 CFR 1.130(b) was/ 	were filed on			
 An election was made by the applicant in response to a restr requirement and election have been incorporated into this ac 		ne interview on	ı; the restriction	
 The allowed claim(s) is/are <u>17-36</u>. As a result of the allowed Highway program at a participating intellectual property office http://www.uspto.gov/patents/init_events/pph/index.jsp or ser 	e for the corresponding application.	For more infor		
4. ☐ Acknowledgment is made of a claim for foreign priority under Certified copies: a) ☐ All b) ☐ Some *c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	been received. been received in Application No uments have been received in this n of this communication to file a reply o	national stage		
noted below. Failure to timely comply will result in ABANDONMETHIS THREE-MONTH PERIOD IS NOT EXTENDABLE.				
5. CORRECTED DRAWINGS (as "replacement sheets") mustincluding changes required by the attached Examiner's		ffice action of		
Paper No./Mail Date			(mad the character) of	
Identifying indicia such as the application number (see 37 CFR 1.4 each sheet. Replacement sheet(s) should be labeled as such in the	34(c)) should be written on the drawin he header according to 37 CFR 1.121(d	.gs in the front : i).	(not the back) of	
 DEPOSIT OF and/or INFORMATION about the deposit of BI attached Examiner's comment regarding REQUIREMENT FO 			the	
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 3. Examiner's Comment Regarding Requirement for Deposit of Biological Material 4. Interview Summary (PTO-413), Paper No./Mail Date 09/29/2015.	5. ⊠ Examiner's Amendr 6. □ Examiner's Stateme 7. □ Other			
Primary Examiner, Art Unit 2462				

Application/Control Number: 13/360,310

Art Unit: 2462

EXAMINER'S AMENDMENT

Page 2

1. An examiner's amendment to the record appears below. Should the changes and/or additions

be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure

consideration of such an amendment, it MUST be submitted no later than the payment of the issue

fee. Authorization for examiner's amendment was given in a telephone interview with the attorney

of record, Mr. Wamsley on September 29, 2015. The application has been amended as follows:

2. In the Claims

24. (Currently Amended) A traffic flow control system for controlling a flow of ingress data

packets to be transmitted over a link, the traffic flow control system comprising:

a first rate limiter configured to provide an amount of rate limiting to a first portion of the flow of

ingress data packets, the amount of rate limiting being dependent upon a first weighting factor; and

a controller, where in the controller comprises a processor, configured to:

receive a backpressure signal,

determine a first weighting factor value to be applied to the flow of ingress data packets based on

the received backpressure signal, and

adjust an amount of rate limiting applied to the first portion of the flow of ingress data packets by

adjusting the first weighting factor used by the first rate limiter based on both the determined first

weighting factor value and a content of the backpressure signal.

Conclusion

Page 3

Application/Control Number: 13/360,310

Art Unit: 2462

3. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to SAMINA CHOUDHRY whose telephone number is (571)270-7102. The

examiner can normally be reached on Monday to Thursday (7:30 a.m. to 5.00p.m.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Yemane Mesfin can be reached on (571)272-3927. The fax phone number for the organization

where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR system,

see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system,

contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like

assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/SAMINA CHOUDHRY/

Primary Examiner, Art Unit 2462

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	Application No.	Applicant(s)				
Examiner-Initiated Interview Summary	13/360,310	MADSEN ET AL.				
Examiner initiated interview cummary	Examiner	Art Unit				
	SAMINA CHOUDHRY	2462				
All participants (applicant, applicant's representative, PTO	personnel):					
(1) <u>SAMINA CHOUDHRY</u> .	(3)					
(2) <u>Patric Wamsley</u> .	(4)					
Date of Interview: 29 September 2015.						
Type: X Telephonic Video Conference Personal [copy given to: Applicant [applicant's representative]					
Exhibit shown or demonstration conducted: Yes If Yes, brief description:	□ No.					
Issues Discussed 2101 112 102 103 Other (For each of the checked box(es) above, please describe below the issue and details						
Claim(s) discussed: <u>24</u> .						
Identification of prior art discussed:						
Substance of Interview (For each issue discussed, provide a detailed description and indicate if agreement reference or a portion thereof, claim interpretation, proposed amendments, arguments.)		dentification or clarification of a				
Examiner proposed claim amendment to overcome 101 iss	ues. Applicant agreed with the	e proposed amendment.				
Applicant recordation instructions: It is not necessary for applicant to p	rovide a separate record of the substa	ance of interview.				
Examiner recordation instructions : Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.						
Attachment						
/SAMINA CHOUDHRY/ Primary Examiner, Art Unit 2462						

U.S. Patent and Trademark Office PTOL-413B (Rev. 8/11/2010)



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

BIB DATA SHEET

CONFIRMATION NO. 1373

SERIAL NUM	BER	FILING O	371(c)		CLASS	GROUP AR	OUP ART UNIT		ATTORNEY DOCKET	
13/360,31	0	01/27/2			370	2462		Al	_C 3328-CON	
		RUL	E							
APPLICANTS	S									
INVENTORS John Madsen, Ottawa, CANADA; Joey Chow, Nepean, CANADA; Dion Pike, Stittsville, CANADA;										
** CONTINUINO This appli					/2007 PAT 8130	649				
** FOREIGN AF	PPLICA	ATIONS *****	*****	******	*					
** IF REQUIRE I 02/07/201		EIGN FILING	LICENS	E GRA	NTED **					
Foreign Priority claime		Yes No	□ Mot of	tor	STATE OR	SHEETS	тот		INDEPENDENT	
35 USC 119(a-d) cond Verified and /3	ditions met SAMINA F		☐ Met af Allowa	ince	COUNTRY	DRAWINGS	CLAI		CLAIMS	
	CHOUDHF Examiner's		Initials		CANADA	1	20)	3	
ADDRESS									-	
Kramer & 330 John 3rd Floor Alexandria	Terry W. Kramer, Esq. Kramer & Amado, P.C. 330 John Carlyle Street									
TITLE										
INGRESS	STRAF	FIC FLOW C	ONTROL	IN A D	ATA COMMUNI	CATIONS SYS	STEM			
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	EEEO.	Authority boo	hoon sive	n in Da		□ 1.16	Fees (Fil	ing)		
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Search Notes



	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13360310	MADSEN ET AL.
Ī	Examiner	Art Unit
	SAMINA CHOUDHRY	2462

CPC- SEARCHED		
Symbol	Date	Examiner
H04L 47/10	3/20/2014	SC
Updated above search	09/21/2015	SC

CPC COMBINATION SETS - SEARCHED					
Symbol Date Examiner					
H04L 5/0053, H04L 12/5602, H04L 2012/5636	03/20/2014	SC			
Updated above search	09/21/2015	SC			

US CLASSIFICATION SEARCHED						
Class	Subclass	Date	Examiner			
		03/19/2014				

SEARCH NOTI	ES	
Search Notes	Date	Examiner
EAST search with all databases		
keyword search	03/19/2014	SC
370/235,229,464,465,468	03/19/2014	SC
Assignee and Inventorship Search done	03/19/2014	SC
Updated EAST search	07/15/2014	SC
UpdatedAssignee and Inventorship Search done	07/15/2014	SC
Updated EAST search	08/08/2014	SC
UpdatedAssignee and Inventorship Search done	08/08/2014	SC
Updated EAST search	02/20/2015	SC
UpdatedAssignee and Inventorship Search done	02/20/2015	SC
Updated EAST search	09/22/2015	SC
UpdatedAssignee and Inventorship Search	09/22/2015	SC

INTERFERENCE SEARCH

U.S. Patent and Trademark Office Part of Paper No.: 20150929

Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 271 of 328

US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
	Please see the attached EAST search history.	08/09/2014	SC
	Update above search.	09/23/2015	SC

U.S. Patent and Trademark Office Part of Paper No.: 20150929

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	5	"20020091527"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L2	1564	harper.xp.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L3	1	L1 and (speech near2 subroutine)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
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L5	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L6	4	L4 or L5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	A DJ	ON	2015/09/30 00:23
L7	3	L6 and (program or code or instructions or software or computer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	A DJ	ON	2015/09/30 00:23
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L9	1	L8 and (program or code or instructions or software or computer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	A DJ	ON	2015/09/30 00:23
L10	1	L6 and (pause or halt\$3 or stop\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	A DJ	ON	2015/09/30 00:23
L11	2	L6 and (pause or halt\$3 or stop\$4 or backpressure or back pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	A DJ	ON	2015/09/30 00:23
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L13	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	A DJ	ON	2015/09/30 00:23
L14	1	L13 and (pause or halt\$3 or stop\$4 or backpressure or back pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L15	1	L5 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L16	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	A DJ	ON	2015/09/30 00:23

Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 273 of 328

	ase u	.20-CV-00497-ADA D00	DERWENT; IBM TDB	+/U9/ZI	raye 2	73 01 320
L17	1	L16 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L18	5	"20020091527"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L19	1564	harper.xp.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L20	1	L18 and (speech near2 subroutine)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L21	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L22	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L23	4	L21 or L22	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L24	3	L23 and (program or code or instructions or software or computer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L25	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L26	1	L25 and (program or code or instructions or software or computer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L27	1	L23 and (pause or halt\$3 or stop\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L28	2	L23 and (pause or halt\$3 or stop\$4 or backpressure or back pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L29	95	"6788686"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L30	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L31	1	L30 and (pause or halt\$3 or stop\$4 or backpressure or back pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	A DJ	ON	2015/09/30 00:23
L32	1	L22 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L33	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L34	1	L33 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L35	5	"20020091527"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	ADJ	ON	2015/09/30 00:23

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Č	ase o	.20-CV-00497-ADA D00	DERWENT; IBM TDB	+/U9/ZI	raye 2	.74 01 320
L36	1564	harper.xp.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L37	1	L35 and (speech near2 subroutine)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L38	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L39	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L40	4	L38 or L39	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L41	3	L40 and (program or code or instructions or software or computer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L42	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L43	1	L42 and (program or code or instructions or software or computer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L44	1	L40 and (pause or halt\$3 or stop\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L45	2	L40 and (pause or halt\$3 or stop\$4 or backpressure or back pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L46	95	"6788686"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L47	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L48	1	L47 and (pause or halt\$3 or stop\$4 or backpressure or back pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L49	1	L39 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L50	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L51	1	L50 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L52	5	"20020091527"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L53	1564	harper.xp.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L54	1	L52 and (speech near2 subroutine)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	A DJ	ON	2015/09/30 00:23

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		0.20-cv-00497-ADA D00	DERWENT; IBM_TDB			
L55	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L56	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L57	4	L55 or L56	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L58	3	L57 and (program or code or instructions or software or computer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L59	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L60	1	L59 and (program or code or instructions or software or computer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23
L61	1	L57 and (pause or halt\$3 or stop\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	A DJ	ON	2015/09/30 00:23
L62	2	L57 and (pause or halt\$3 or stop\$4 or backpressure or back pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	A DJ	ON	2015/09/30 00:23
L63	95	"6788686"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	A DJ	ON	2015/09/30 00:23
L64	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	A DJ	ON	2015/09/30 00:23
L65	1	L64 and (pause or halt\$3 or stop\$4 or backpressure or back pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	A DJ	ON	2015/09/30 00:23
L66	1	L56 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	A DJ	ON	2015/09/30 00:23
L67	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	A DJ	ON	2015/09/30 00:23
L68	1	L67 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:23

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EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	10662	(back pressure or paus\$3 or halt\$3 or stop\$4) same (congestion or congest\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L2	1029	(back pressure or paus\$3 or halt\$3 or stop\$4) same (congestion or congest\$3) same (flow near2 control\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L3	496	(back pressure or paus\$3 or halt\$3 or stop\$4) with (congestion or congest\$3) with (flow near2 control\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L4	98000	(back pressure or paus\$3 or halt\$3 or stop\$4) with (weigh\$3 or weight)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L5	3	L3 and (back pressure or paus\$3 or halt\$3 or stop\$4) with (weigh\$3 or weight)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L6	3	L3 and ((back pressure or paus\$3 or halt\$3 or stop\$4) with (weigh\$3 or weight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L7	1	"13360310"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L8	2	"6570848".pn.	US-PGPUB;	ADJ	ON	2015/09/30

		D-cv-00497-ADA Document 66	USPAT;	1,00,21	. age 21	7 of 328 00:14
			USOCR; FPRS; EPO; JPO; DERWENT;			00.14
			IBM_TDB	***************************************		
L9	4	"6031821".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L10	6	L8 or L9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L11	2	L10 and (weigh\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L12	5	L3 and (back pressure or paus\$3 or halt\$3 or stop\$4) with (weigh\$3 or weight or proportion)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L13	2	L12 not L6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L14	11	L3 and (back pressure or paus\$3 or halt\$3 or stop\$4) with (weigh\$3 or weight or proportion or percentage or percent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L15	2	"6170022".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L16	1	L15 and (percent or percentage or pause)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	ADJ	ON	2015/09/30 00:14

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L			IBM_TDB	1		
L17	1	L15 and (percent\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L18	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L19	95	"6788686"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L20	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L21	5	L18 or L20	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L22	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L23	2	L21 and (backpressure or back pressure or paus\$3 or halt\$3 or stop\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L24	2	L23 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L25	3	"20130132573"	US-PGPUB; USPAT; USOCR; FPRS; EPO;	ADJ	ON	2015/09/30 00:14

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, Ca	ase 6:20)-cv-00497-ADA Document 66	i e	4/09/21 F	Page 27	9 of 328
			JPO; DERWENT; IBM_TDB			
L26	1	L25 and (embed\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L27	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L28	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L29	5	L27 or L28	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L30	3	L29 and (flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L31	3	L29 and (flow or (backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L32	3	L29 and (flow or (backpressure or back pressure) or (weigh\$3 or weight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L33	1	L29 and ((backpressure or back pressure or paus\$3 or halt\$3) with (weigh\$3 or weight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L34	2	"6952424".pn.	US-PGPUB; USPAT;	A DJ	ON	2015/09/30 00:14

Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 280 of 328 USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB L35 US-PGPUB; ADJ ON 2015/09/30 L34 and (weight or weigh\$3) USPAT; 00:14 USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB L36 L34 and ((weight or weigh\$3) with US-PGPUB; ADJ ON2015/09/30 (back pressure or halt or paus\$3 or USPAT; 00:14 stop\$4)) USOCR; FPRS; EPO; JPO: DERWENT; IBM TDB L37 L34 and ((weight or weigh\$3) and US-PGPUB; ADJ ON 2015/09/30 (back pressure or halt or paus\$3 or USPAT; 00:14 stop\$4)) USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB L38 US-PGPUB: ADJ ON "6967923".pn. 2015/09/30 USPAT; 00:14 USOCR; FPRS; EPO; JPO: DERWENT; IBM TDB US-PGPUB; L39 ADJ ON 2015/09/30 L38 and (weight\$3 or weigh\$3) USPAT; 00:14 USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB L40 L29 and (weight or weigh\$3) US-PGPUB: ADJ ON 2015/09/30 USPAT; 00:14 USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB L41 L29 and ((weight or weigh\$3) with US-PGPUB; ADJ ON 2015/09/30 (paus\$3 or halt\$3 or stop\$4 or USPAT; 00:14 backpressure or back pressure)) USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB ADJ L42 L29 and ((weight or weigh\$3) same US-PGPUB; ON 2015/09/30 (paus\$3 or halt\$3 or stop\$4 or USPAT; 00:14 USOCR; backpressure or back pressure)) FPRS; EPO; JPO; DERWENT; IBM TDB

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L43	325879	((weight or weigh\$3) same (paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))		ADJ	ON	2015/09/30 00:14
L44	98371	((weight or weigh\$3)with (paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L45	4849	L44 and (flow near2 control)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L46	1719	L45 and ((adjust\$3 or chang\$3 or modif\$5) with (weight or weigh\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L47	43	L45 and ((adjust\$3 or chang\$3 or modif\$5) with (weight or weigh\$3) with (back pressure or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L48	49	L45 and ((adjust\$3 or chang\$3 or modif\$5) with (weight or weigh\$3) with (back pressure or backpressure or paus\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L49	465	L45 and ((adjust\$3 or chang\$3 or modif\$5) with (weight or weigh\$3) with (back pressure or backpressure or paus\$3 or halt\$3 or stop\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L50	1	"13360310"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L51	3	L48 and (network)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	ADJ	ON	2015/09/30 00:14

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Ci	ase 6:20	0-cv-00497-ADA Document 60 ∥	DERWENT;	4/09/21 	Page 28	32 of 328
			IBM_TDB			
L52	77	L49 and (network)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L53	27	L49 and (network and (packet or frame))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L54	25350	(network and (weight or weigh\$3) same (paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L55	538	(network and (weight or weigh\$3) with (paus\$3 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L56	26	L55 and (network with (flow near2 control\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L57	173	L55 and ((flow near2 control\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L58	3	"20060187945"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L59	2	L58 and (weight\$3 or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L60	2	"20040257997"	US-PGPUB; USPAT; USOCR;	ADJ	ON	2015/09/30 00:14

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			FPRS; EPO; JPO; DERWENT; IBM_TDB			
L61	2	L60 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L62	1	L60 and ((weight or weigh\$3) with (backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L63	14	"7701957".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L64	2	L63 and (backpressure or back pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L65	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L66	1	L65 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L67	1	L65 and (weight or weigh\$3 or back prssure or pause or backpressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L68	1	L65 and (weight or weigh\$3 or back prssure or pause or backpressure or halt or stop\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L69	1	L65 and (back)	US-PGPUB;	A DJ	ON	2015/09/30

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			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			00:14
L70	1	L65 and (flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L71	1	L65 and (flow and back)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L72	1	L65 and (paus\$3 or stop\$4 or halt\$3 or back)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L73	5	"20020091527"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L74	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L75	1	L74 and (congest\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L76	1	L74 and ((back pressure or pause or halt\$3 or stop\$4 or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L77	1	L74 and (congest\$5 and (back pressure or pause or halt\$3 or stop\$4 or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	ADJ	ON	2015/09/30 00:14

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L			IBM_TDB			
L78	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L79	1	L78 and (congest\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L80	1	L78 and (congest\$5 and (back pressure or pause or halt\$3 or stop\$4 or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L81	13	"7802028".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L82	1	L81 and (congest\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L83	1	L81 and (congest\$4 same (stop\$3 or paus\$3 or stop\$4 or halt\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L84	3	"20060248242"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L85	2	L84 and (congestion same pause)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L86	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO;	ADJ	ON	2015/09/30 00:14

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	Paramanananananananananananananananananan	J-cv-00497-ADA Document 66	JPO; DERWENT; IBM_TDB		-	
L87	1	L86 and (weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L88	1	L86 and (weigh\$3 and (pause or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L89	2	L84 and (backpressure or back pressure or halt\$3 or stop\$4 or pause)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L90	2	L84 and ((backpressure or back pressure or halt\$3 or stop\$4 or pause) and (weigh\$3 or weight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L91	2	L84 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L92	1	L86 and ((pause or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L93	2	L86 and (threshold or level or limit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L94	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L95	1	L94 and (Flow or pause or stop\$3 or halt\$3 or backpressure or back	US-PGPUB; USPAT;	A DJ	ON	2015/09/30 00:14

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C	15 0 0.20	J-cv-00497-ADA Document 60	USOCR;	+/US/ZI F	aye 28	/ UI 328
		pressure)	FPRS; ÉPO; JPO; DERWENT; IBM_TDB			
L96	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L97	1	L96 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L98	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L99	1	L98 and ((weight or weigh\$3) with (back pressure or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L100	1	L98 and ((weight or weigh\$3) and (back pressure or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L101	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L102	1	L101 and (indicator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L103	1	L94 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14

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L104		L94 and (control\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L105	3	"20060248242"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L106	2	L105 and (control\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L107	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L108	1	L107 and (controller)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L109	1	L96 and (controller with pause or stop\$3 or halt\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L110	1	L96 and (controller with pause or stop\$3 or halt\$3 or back pressure or backpressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L111	1	L98 and (controller with pause or stop\$3 or halt\$3 or back pressure or backpressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L112	1	L96 and (controller with pause or stop\$3 or halt\$3 or back pressure or backpressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	ADJ	ON	2015/09/30 00:14

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Ce	ise 6.20	D-cv-00497-ADA Document 66	DERWENT; IBM_TDB	4/09/21	Page 28	9 01 328
L113	1	L98 and (portion or part)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L114	1	L94 and (portion)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L115	6	"11907871"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L116	3	"8130649".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L117	2	L116 and (set near2 weigh\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L118	1	L116 and (set near2 weigh\$4).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L119	1	L116 and (cross\$3 or threshold).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L120	1	"13360310"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L121	1	L120 and (control\$4)	US-PGPUB; USPAT; USOCR;	ADJ	ON	2015/09/30 00:14

Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 290 of 328 FPRS; EPO; JPO; DERWENT; IBM_TDB L122 41460 ADJ ON h04l47/10.cpc. US-PGPUB; 2015/09/30 USPAT; 00:14 USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB L123 5612 US-PGPUB; ADJ ON 2015/09/30 h04l12/5602.cpc. 00:14 USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB US-PGPUB; L124 2917 h04l2012/5636.cpc. ADJ ON 2015/09/30 USPAT; 00:14 USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB US-PGPUB: L125 27295 ADJ ON h04l5/0053.cpc. 2015/09/30 USPAT: 00:14 USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB L126 74333 L122 or L123 or L124 or L125 US-PGPUB: ADJ ON 2015/09/30 USPAT; 00:14 USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB L127 35 L126 and ((weight or weigh\$3) with US-PGPUB; ON 2015/09/30 ADJ (paus or halt\$3 or stop\$4 or back USPAT; 00:14 pressure or backpressure)) USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB US-PGPUB; ON L128 39 L126 and ((weight or weigh\$3) with ADJ 2015/09/30 (pause or halt\$3 or stop\$4 or back USPAT; 00:14 USOCR; pressure or backpressure)) FPRS; EPO; JPO; DERWENT; IBM_TDB L129 137 US-PGPUB; ADJ ON 2015/09/30 L126 and ((weight or weigh\$3) same (pause or halt\$3 or stop\$4 or USPAT; 00:14 back pressure or backpressure)) USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB L130 75 L129 and (network with flow) US-PGPUB; ON 2015/09/30 ADJ

EAST Search History	Ca	se 6:20	0-cv-00497-ADA Document 66	S-11 Filed O	4/09/21 F	Pane 20	1 of 328
				USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	uge 23	00:14
	L131	59866	370/329,335,464,465,468.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
	L132	8614	L131 and (pause or halt\$3 or stop\$4 or back pressure or backpressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
	L133	27	L131 and ((weight or weigh\$3) with (pause or halt\$3 or stop\$4 or back pressure or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
	L134	2	L130 and L133	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
	L135	25	L133 not L134	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
	L136	2	L135 and (network with flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
	L137	15	L135 and (network and flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
	L138	10662	(back pressure or paus\$3 or halt\$3 or stop\$4) same (congestion or congest\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	ADJ	ON	2015/09/30 00:14

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			IBM_TDB		luge 20	
L139	1029	(back pressure or paus\$3 or halt\$3 or stop\$4) same (congestion or congest\$3) same (flow near2 control\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L140	496	(back pressure or paus\$3 or halt\$3 or stop\$4) with (congestion or congest\$3) with (flow near2 control\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L141	98000	(back pressure or paus\$3 or halt\$3 or stop\$4) with (weigh\$3 or weight)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L142	3	L140 and (back pressure or paus\$3 or halt\$3 or stop\$4) with (weigh\$3 or weight)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L143	3	L140 and ((back pressure or paus\$3 or halt\$3 or stop\$4) with (weigh\$3 or weight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L144	1	"13360310"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L145	2	"6570848".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L146	4	"6031821".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L147	6	L145 or L146	US-PGPUB; USPAT; USOCR; FPRS; EPO;	ADJ	ON	2015/09/30 00:14

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			DERWENT; IBM_TDB			
L148	2	L147 and (weigh\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L149	5	L140 and (back pressure or paus\$3 or halt\$3 or stop\$4) with (weigh\$3 or weight or proportion)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L150	2	L149 not L143	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L151	11	L140 and (back pressure or paus\$3 or halt\$3 or stop\$4) with (weigh\$3 or weight or proportion or percentage or percent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L152	2	"6170022".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L153	1	L152 and (percent or percentage or pause)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L154	1	L152 and (percent\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L155	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	A DJ	ON	2015/09/30 00:14
L156	95	"6788686"	US-PGPUB; USPAT;	ADJ	ON	2015/09/30 00:14

y Ca	ase 6:20	O-cv-00497-ADA Document 6	1.	4/09/21 I	Page 29	4 of 328
			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
L157	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L158	5	L155 or L157	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L159	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L160	2	L158 and (backpressure or back pressure or paus\$3 or halt\$3 or stop\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L161	2	L160 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L162	3	"20130132573"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L163	1	L162 and (embed\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L164	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14

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L165		"6788686".pn.	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L166	5	L164 or L165	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L167	3	L166 and (flow)	US-PGPUB; USPAT; USPOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L168	3	L166 and (flow or (backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L169	3	L166 and (flow or (backpressure or back pressure) or (weigh\$3 or weight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L170	1	L166 and ((backpressure or back pressure or paus\$3 or halt\$3) with (weigh\$3 or weight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L171	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L172	1	L171 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L173	1	L171 and ((weight or weigh\$3) with (back pressure or halt or paus\$3 or stop\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	ADJ	ON	2015/09/30 00:14

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L174	1	L171 and ((weight or weigh\$3) and (back pressure or halt or paus\$3 or stop\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L175	2	"6967923".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L176	1	L175 and (weight\$3 or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L177	2	L166 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L178	1	L166 and ((weight or weigh\$3) with (paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L179	1	L166 and ((weight or weigh\$3) same (paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L180	325879	((weight or weigh\$3) same (paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L181	98371	((weight or weigh\$3)with (paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L182	4849	L181 and (flow near2 control)	US-PGPUB; USPAT; USOCR;	ADJ	ON	2015/09/30 00:14

Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 297 of 328 FPRS; EPO; JPO; DERWENT; IBM_TDB L183 1719 ADJ ON L182 and ((adjust\$3 or chang\$3 or US-PGPUB; 2015/09/30 modif\$5) with (weight or 00:14 USPAT; weigh\$3)) USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB L184 43 L182 and ((adjust\$3 or chang\$3 or US-PGPUB; ADJ ON 2015/09/30 modif\$5) with (weight or weigh\$3) 00:14 USPAT; with (back pressure or USOCR; backpressure)) FPRS; EPO; JPO; DERWENT; IBM TDB US-PGPUB; L185 49 L182 and ((adjust\$3 or chang\$3 or ADJ ON 2015/09/30 modif\$5) with (weight or weigh\$3) USPAT; 00:14 with (back pressure or USOCR; FPRS; EPO; backpressure or paus\$3)) JPO: DERWENT; IBM TDB US-PGPUB: L186 465 L182 and ((adjust\$3 or chang\$3 or ADJ ON 2015/09/30 USPAT: modif\$5) with (weight or weigh\$3) 00:14 with (back pressure or USOCR; backpressure or paus\$3 or halt\$3 FPRS; EPO; or stop\$4)) JPO; DERWENT; IBM TDB L187 1 "13360310" US-PGPUB: ADJ ON 2015/09/30 USPAT; 00:14 USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB L188 3 L185 and (network) US-PGPUB; ADJ ON 2015/09/30 USPAT; 00:14 USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB L189 ||77 US-PGPUB; ON L186 and (network) ADJ 2015/09/30 USPAT; 00:14 USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB L190 27 L186 and (network and (packet or US-PGPUB; ADJ ON 2015/09/30

USPAT;

USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB

US-PGPUB;

00:14

2015/09/30

ON

ADJ

L191 25350

frame))

(network and (weight or weigh\$3)

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Ca	ase 6:20)-cv-00497-ADA Document 66		4/09/21 F	Page 298	3 of 328
		same (paus\$3 or halt\$3 or stop\$4 or backpressure or back pressure))	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			00:14
L192	538	(network and (weight or weigh\$3) with (paus\$3 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L193	26	L192 and (network with (flow near2 control\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L194	173	L192 and ((flow near2 control\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L195	3	"20060187945"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L196	2	L195 and (weight\$3 or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	ADJ	ON	2015/09/30 00:14
L197	2	"20040257997"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L198	2	L197 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L199	1	L197 and ((weight or weigh\$3) with (backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	ADJ	ON	2015/09/30 00:14

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			IBM_TDB]	l age 20	
L200	14	"7701957".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L201	2	L200 and (backpressure or back pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L202	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L203	1	L202 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L204	1	L202 and (weight or weigh\$3 or back prssure or pause or backpressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L205	1	L202 and (weight or weigh\$3 or back prssure or pause or backpressure or halt or stop\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L206	1	L202 and (back)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L207	1	L202 and (flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L208	1	L202 and (flow and back)	US-PGPUB; USPAT; USOCR; FPRS; EPO;	ADJ	ON	2015/09/30 00:14

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Ca	ase 6:20)-cv-00497-ADA Document 66	6-11 Filed 04	4/09/21 I	Page 30	0 of 328
			JPO; DERWENT; IBM_TDB			
L209	1	L202 and (paus\$3 or stop\$4 or halt\$3 or back)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L210	5	"20020091527"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L211	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L212	1	L211 and (congest\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L213	1	L211 and ((back pressure or pause or halt\$3 or stop\$4 or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L214	1	L211 and (congest\$5 and (back pressure or pause or halt\$3 or stop\$4 or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L215	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L216	1	L215 and (congest\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L217	1	L215 and (congest\$5 and (back pressure or pause or halt\$3 or	US-PGPUB; USPAT;	ADJ	ON	2015/09/30 00:14

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Ca	ase 6:20	-cv-00497-ADA Document 66		1/09/21 F	Page 30:	1 of 328
		stop\$4 or backpressure))	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
L218	13	"7802028".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L219	1	L218 and (congest\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L220	1	L218 and (congest\$4 same (stop\$3 or paus\$3 or stop\$4 or halt\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L221	3	"20060248242"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L222	2	L221 and (congestion same pause)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L223	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L224	1	L223 and (weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L225	1	L223 and (weigh\$3 and (pause or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14

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L226		L221 and (backpressure or back pressure or halt\$3 or stop\$4 or pause)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L227	2	L221 and ((backpressure or back pressure or halt\$3 or stop\$4 or pause) and (weigh\$3 or weight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L228	2	L221 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L229	1	L223 and ((pause or halt\$3 or stop\$4 or backpressure or back pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L230	2	L223 and (threshold or level or limit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L231	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L232	1	L231 and (Flow or pause or stop\$3 or halt\$3 or backpressure or back pressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L233	2	"6324165".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L234	1	L233 and (weight or weigh\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	ADJ	ON	2015/09/30 00:14

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Cò	ise 6:20	0-cv-00497-ADA Document 66	DERWENT;	4/U9/ZI F	age 30	3 of 328
			IBM_TDB			
L235	3	"6788686".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L236	1	L235 and ((weight or weigh\$3) with (back pressure or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L237	1	L235 and ((weight or weigh\$3) and (back pressure or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L238	2	"6952424".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L239	1	L238 and (indicator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L240			US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L241			US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L242	3	"20060248242"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L243	2	L242 and (control\$4)	US-PGPUB; USPAT; USOCR;	ADJ	ON	2015/09/30 00:14

Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 304 of 328 FPRS; EPO; JPO; DERWENT; IBM_TDB L244 3 US-PGPUB; ADJ ON 2015/09/30 "6788686".pn. 00:14 USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB L245 1 L244 and (controller) US-PGPUB; ADJ ON 2015/09/30 00:14 USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB US-PGPUB; ADJ ON L246 1 L233 and (controller with pause or 2015/09/30 stop\$3 or halt\$3) USPAT; 00:14 USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB L247 1 US-PGPUB; ON L233 and (controller with pause or ADJ 2015/09/30 stop\$3 or halt\$3 or back pressure USPAT: 00:14 or backpressure) USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB L248 1 L235 and (controller with pause or US-PGPUB: ADJ ON 2015/09/30 stop\$3 or halt\$3 or back pressure USPAT; 00:14 or backpressure) USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB L249 1 L233 and (controller with pause or US-PGPUB; ADJ ON 2015/09/30 stop\$3 or halt\$3 or back pressure USPAT; 00:14 or backpressure) USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB L250 US-PGPUB; ON 2015/09/30 L235 and (portion or part) ADJ USPAT; 00:14 USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB L251 L231 and (portion) US-PGPUB; ADJ ON 2015/09/30 USPAT; 00:14 USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB L252 6 "11907871" US-PGPUB; ADJ ON 2015/09/30

Cà	ise 6:20	D-cv-00497-ADA Document 60	0-11 Filed 04 ∬USPAT;	4/09/21 F	age 30	5 of 328 00:14
			USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB			00.14
L253	3	"8130649".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L254	2	L253 and (set near2 weigh\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L255	1	L253 and (set near2 weigh\$4).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L256	1	L253 and (cross\$3 or threshold).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L257	1	"13360310"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L258	1	L257 and (control\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L259	41460	h04l47/10.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L260	5612	h04l12/5602.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	ADJ	ON	2015/09/30 00:14

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			IBM_TDB	1	l	
L261	61 2917 h04 2012/5636.cpc.		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L262	27295	h04l5/0053.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L263	74333	L259 or L260 or L261 or L262	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L264	35	L263 and ((weight or weigh\$3) with (paus or halt\$3 or stop\$4 or back pressure or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L265	65 39 L263 and ((weight or weigh\$3) with (pause or halt\$3 or stop\$4 or back pressure or backpressure))		US-PGPUB; ADJ (USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB		ON	2015/09/30 00:14
L266	137	L263 and ((weight or weigh\$3) same (pause or halt\$3 or stop\$4 or back pressure or backpressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L267	75	L266 and (network with flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L268	59866	370/329,335,464,465,468.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L269	8614	L268 and (pause or halt\$3 or stop\$4 or back pressure or backpressure)	US-PGPUB; USPAT; USOCR; FPRS; EPO;	ADJ	ON	2015/09/30 00:14

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	0.20	-cv-00497-ADA Document of	JPO; DERWENT; IBM_TDB	7/09/21 F	age 30	01320
L270	270 L268 and ((weight or weigh\$3) with (pause or halt\$3 or stop\$4 or back pressure or backpressure))		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L271	2	L267 and L270	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L272	25	L270 not L271	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L273	2	L272 and (network with flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2015/09/30 00:14
L274	15	L272 and (network and flow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	ADJ	ON	2015/09/30 00:14

EAST Search History

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	4	((flow with control) and ((backpressure or halt) same (weight or weig\$4))).clm.	USPAT; UPAD	ADJ	ON	2015/09/29 23:32
L3	5	((flow with control) and ((backpressure or halt) same (weight or weigh\$4))).clm.	USPAT; UPAD	ADJ	ON	2015/09/29 23:33
L4	1	3 not 2	USPAT; UPAD	ADJ	ON	2015/09/29 23:33
L7	123	((flow with control) and ((backpressure or halt) and (rate with flow))).clm.	USPAT; UPAD	ADJ	ON	2015/09/29 23:34
L8	7	7 and (weigh\$5 or weight).clm.	USPAT; UPAD	ADJ	ON	2015/09/29 23:34
L10	6	7 and (lucent).asn.	USPAT; UPAD	ADJ	ON	2015/09/29 23:35
L11	1	10 and (weight or weigh\$5).clm.	USPAT; UPAD	ADJ	ON	2015/09/29 23:36
L12	1	10 and (weight\$5 or weigh\$5).clm.	USPAT; UPAD	ADJ	ON	2015/09/29 23:37
L13	1	10 and (weigh\$5 or weight).clm.	USPAT; UPAD	ADJ	ON	2015/09/29 23:37

9/29/2015 11:37:43 PM

 $\textbf{C:} \ \textbf{Users} \ \textbf{schoudhry} \ \textbf{Documents} \ \textbf{EAST} \ \textbf{Workspaces} \ \textbf{13360310_Allowance_2.wsp}$

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Issue Classification

Application/Control No.	Applicant(s)/Patent Under Reexamination
13360310	MADSEN ET AL.
Examiner	Art Unit
SAMINA CHOUDHBY	2462

СРС	CPC								
Symbol			Туре	Version					
H04L	47	1 10	F	2013-01-01					
H04L	47	/ 2441	I	2013-01-01					
H04L	47	263	I	2013-01-01					
H04L	47	/ 29	I	2013-01-01					

CPC Combination Sets									
Symbol	Туре	Set	Ranking	Version					

NONE	Total Claims Allowed:		ns Allowed:		
(Assistant Examiner)	(Date)	20			
/SAMINA CHOUDHRY/ Primary Examiner.Art Unit 2462	09/28/2015	O.G. Print Claim(s)	O.G. Print Figure		
(Primary Examiner)	(Date)	1	1		

U.S. Patent and Trademark Office Part of Paper No. 20150929

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	Application/Control No.	Applicant(s)/Patent Under Reexamination
Issue Classification	13360310	MADSEN ET AL.
	Examiner	Art Unit

US ORIGINAL CLASSIFICATION					INTERNATIONAL CLASSIFICATION								ON		
CLASS SUBCLASS 370 235				CLAIMED						NON-CLAIMED					
				Н	0	4	L	5 / 12 (2006.01.01)							
	CROSS REFERENCE(S)														
CLASS	SUB	CLASS (ONE	SUBCLAS	S PER BLO	CK)										
									_						

NONE	Total Claims Allowed:			
(Assistant Examiner)	(Date)	20		
/SAMINA CHOUDHRY/ Primary Examiner.Art Unit 2462	09/28/2015	O.G. Print Claim(s)	O.G. Print Figure	
(Primary Examiner)	(Date)	1	1	

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	Application/Control No.	Applicant(s)/Patent Under Reexamination
Issue Classification	13360310	MADSEN ET AL.
	Examiner	Art Unit
	SAMINA CHOUDHRY	2462

×	Claims renumbered in the same order as presented by applicant 🔲 CPA 🛭 T.D. 🔲 R.1.47														
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
-	1	1	17	17	33										
-	2	2	18	18	34										
-	3	3	19	19	35										
-	4	4	20	20	36										
-	5	5	21												
-	6	6	22												
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-	14	14	30												
-	15	15	31												
	16	16	32												

NONE	Total Claims Allowed:			
(Assistant Examiner)	(Date)	20		
/SAMINA CHOUDHRY/ Primary Examiner.Art Unit 2462	09/28/2015	O.G. Print Claim(s)	O.G. Print Figure	
(Primary Examiner)	(Date)	1	1	

U.S. Patent and Trademark Office Part of Paper No. 20150929

Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 312 of 328



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE		DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
	13/360,310	01/27/2012		John Madsen	ALC 3328-CON	1373		
	76614 Terry W. Krar	7590 ner Esa	10/15/2015	EXAMINER				
	Kramer & Am 330 John Carl	ado, P.C.			CHOUDHRY, SAMINA F			
	3rd Floor				ART UNIT	PAPER NUMBER		
	Alexandria, V	A 22314			2462			
					NOTIFICATION DATE	DELIVERY MODE		
					10/15/2015	ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mail@krameramado.com



Commissioner for Patents United States Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450 www.uspto.gov

Application No.: 13360310

Applicant: Madsen
Filing Date: 01/27/2012
Date Mailed: 10/15/2015

NOTICE TO FILE CORRECTED APPLICATION PAPERS

Notice of Allowance Mailed

This application has been accorded an Allowance Date and is being prepared for issuance. The application, however, is incomplete for the reasons below.

Applicant is given two (2) months from the mail date of this Notice within which to respond. This time period for reply is extendable under 37 CFR 1.136(a) for only TWO additional MONTHS.

The informalities requiring correction are indicated in the attachment(s). If the informality pertains to the abstract, specification (including claims) or drawings, the informality must be corrected with an amendment in compliance with 37 CFR 1.121 (or, if the application is a reissue application, 37 CFR 1.173). Such an amendment may be filed after payment of the issue fee if limited to correction of informalities noted herein. See Waiver of 37 CFR 1.312 for Documents Required by the Office of Patent Publication, 1280 Off. Gaz. Patent Office 918 (March 23, 2004). In addition, if the informality is not corrected until after payment of the issue fee, for purposes of 35 U.S.C. 154(b)(1)(iv), "all outstanding requirements" will be considered to have been satisfied when the informality has been corrected. A failure to respond within the above-identified time period will result in the application being ABANDONED.

See attachment(s).

A copy of this notice <u>MUST</u> be returned with the reply. Please address response to "Mail Stop Issue Fee, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450".

/Carlota Erana/ Publication Branch Office of Data Management (571) 272-4200

Application No. <u>13360310</u>

IDENTIFICATION OF APPLICATION DEFICIENCIES IN APPLICATION FILED <u>BEFORE</u> SEPTEMBER 16, 2012

	Applicant must provide legible text for the following item(s).						
	Specification filed, page(s).						
	Claims filed, claim(s).						
	Other:						
X	Applicant must provide missing information on the following page(s) of the specification by amending the specification to add the missing text. No new matter may be added. Page/line no(s). Page 4 para. 0011 line 4 is incomplete. It ends with the word "and"						
	The specification refers to one or more applications by attorney docket number and does not show the U.S. application number(s). Applicant must supply the U.S. application number in place of each attorney docket number. Page/line no(s).						
	Applicant must provide an Abstract of the Disclosure.						
	The Application Data Sheet (ADS dated) did not show the inventor's residence at all, or did not show both a city and state in the U.S. inventor's residence, or did not show both a city and country in the non-U.S. inventor's residence. Applicant must supply a Supplemental Application Data Sheet (ADS) that shows each U.S. inventor's city and state of residence and each non-U.S. inventor's city and country of residence. To be in compliance with 37 CFR 1.76, the Supplemental Application Data Sheet must identify the information being changed by using underlining for additions and strikethroughs or brackets for deletions.						
	Other:						

REPLY UNDER 37 C.F.R. § 1.312 TECHNOLOGY CENTER 2400

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of John Madsen

For Ingress Traffic Flow Control in a Data

Communications System

Serial Number 13/360,310

Filed January 27, 2012

Art Unit 2462

Examiner Samina F. Choudhry

Attorney Docket Number ALC 3328-CON

Confirmation Number 1373

AMENDMENT UNDER 37 C.F.R § 1.312

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In response to the Notice to File Corrected Application Papers mailed October 15, 2015, and further, to the Notice of Allowance mailed October 8, 2015, please amend the above-identified application as set forth below:

AMENDMENTS TO THE SPECIFICATION begin on page 2 of this paper.

REMARKS begin on page 3 of this paper.

Application No: 13/360,310 Attorney Docket No: ALC 3328-CON

AMENDMENTS TO THE SPECIFICATION

Please amend the specification as follows:

Page 4, paragraph [0011]:

[0011] The invention will be further understood from the following detailed description with reference to the drawings, in which:

Figure 1 is a high-level block diagram of an ingress traffic flow control system according to an embodiment of the invention[[; and]].

Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 317 of 328

Application No: 13/360,310

Attorney Docket No: ALC 3328-CON

REMARKS

The specification has been amended to correct a minor typographical error. No further

amendments have been introduced, and the amendments so not introduce new matter.

CONCLUSION

Should the Examiner have any further comments or suggestions, it is respectfully requested

that the Examiner telephone the undersigned attorney in order to expeditiously resolve any

outstanding issues.

In the event that the fees submitted prove to be insufficient in connection with the filing of

this paper, please charge our Deposit Account Number 50-0578 and please credit any excess fees to

such Deposit Account.

Respectfully submitted,

KRAMER & AMADO, P.C.

Date: October 28, 2015

/Terry W. Kramer/

Terry W. Kramer

Registration No.: 41,541

KRAMER & AMADO, P.C. 330 John Carlyle Street, 3rd Floor

Alexandria, VA 22314 Phone: 703-519-9801

Fax: 703-519-9802

- 3 -

	nent 66-11 Filed 04/09/21 Page 318 of 328 knowledgement Receipt
EFS ID:	23921676
Application Number:	13360310
International Application Number:	
Confirmation Number:	1373
Title of Invention:	INGRESS TRAFFIC FLOW CONTROL IN A DATA COMMUNICATIONS SYSTEM
First Named Inventor/Applicant Name:	John Madsen
Customer Number:	76614
Filer:	Terry Wayne Kramer/wendy spradlin
Filer Authorized By:	Terry Wayne Kramer
Attorney Docket Number:	ALC 3328-CON
Receipt Date:	28-OCT-2015
Filing Date:	27-JAN-2012
Time Stamp:	17:28:20
Application Type:	Utility under 35 USC 111(a)

Payment information:

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Amendment_312.pdf	60303	yes	3
'		Amendment_512.pdf	2ea13807a33e45735b816ef3728bb54dc97 cb641	, i	J

	Document Description	Start	End	
	Amendment after Notice of Allowance (Rule 312)	1	1	
	Specification	2	2	
	Applicant Arguments/Remarks Made in an Amendment	3	3	
arnings:				

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

Total Files Size (in bytes):

60303

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.





UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
13/360,310	01/27/2012	John Madsen	ALC 3328-CON	1373	
76614	7590 11/02/20	EXAMINER			
Terry W. Kram Kramer & Ama 330 John Carly	ido, P.C.	CHOUDHRY, SAMINA F			
3rd Floor			ART UNIT	PAPER NUMBER	
Alexandria, VA	A 22314		2462		
			NOTIFICATION DATE	DELIVERY MODE	
			11/02/2015	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mail@krameramado.com

Applicant(s) Application No. 13/360,310 Response to Rule 312 Communication Art Unit Examiner -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address -1. The amendment filed on 28 October 2015 under 37 CFR 1.312 has been considered, and has been: a) 🛛 entered. b) \square entered as directed to matters of form not affecting the scope of the invention. c) \(\square\) disapproved because the amendment was filed after the payment of the issue fee. Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1) and the required fee to withdraw the application from issue. d) disapproved. See explanation below. e) antered in part. See explanation below. N.Y. Horne **PUBLISHING DIVISION**

Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 321 of 328

Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 322 of 328

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax
(571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed of	ng the Patent, advance of herwise in Block 1, by	orders and notification of (a) specifying a new cor	f maintenance fees w respondence address;	vill be mailed and/or (b) inc	to the current licating a sepa	correspondence address as rate "FFE ADDRESS" for		
Current Correspond	SENCE ADDRESS (Nose: Use \$6	Sock User any change of address	. F	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
76614 Terry W. Kran Kranter & Amad 330 John Carlyl	đo, P.C.	1 3 8 u	hereby certify that the	is Feeler Trans	ling or Transe mittal is being xostage for first FEIE address 2885, on the da	nission deposited with the United t class mail in an envelope above, or being facsimile te indicated below.			
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	DR .	ATTORNEY D	OCKETNO.	CONFIRMATION NO.		
13/360,310	01/27/2012		John Madsen		ALC 332	8-CON	1373		
TITLE OF INVENTION	E INGRESS TRAFFIC I	FOW CONTROL IN A	DATA COMMUNICAT	TONS SYSTEM					
APPLN. TYPE	ENTITY STATUS	ISSUE PEE INDE	PUBLICATION FIE DU	E PREY, PAID ISSU	SPEE TOTA	d. FEE(S) DUE	DATE DEE		
nonprovisional	UNDISCOUNTED	S960	30	30	***************************************	\$960	01/08/2016		
EXAN	INER	ART ONE	CLASS-SUSCLASS						
CHOUDHRY	C, SAMINA F	2462	370-235000						
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		A TO BE PRINTED ON			Total Page Newson	Kalinda Villani tina	. Tri tudo de la composición de la composition della composition d		
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	Alcatel Luci	ent - Boulogr	ne-Billancourt, I	rance					
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ie.	ig small entity status. See		to be a notification of I	loss of entitlement to r	micro entity sta	itus.	ng this box will be taken		
	ng to regular undiscounte		entity status, as applica	shle.			lement to small or micro		
SOTE: This form must b	ne signed in accordance of	with 37 CFR 1.31 and 1.2	13. Sec 37 CFR 1.4 for si	gnature requirements	and certificatio	88,	***************************************		
Authorized Signature	Hatta	Gulla	4	Date	12 "	30-15			
Typed or printed nam	- Pa ([)	Giebler		Registration N	io	Secretaria.			

Electronic Patent A	h	lication Fee	Transm	ittal	
Application Number:	133	360310			
Filing Date:	27-Jan-2012				
Title of Invention:	ING	GRESS TRAFFIC FLO	W CONTROL IN	I A DATA COMMUN	ICATIONS SYSTEM
First Named Inventor/Applicant Name:	Joł	nn Madsen			
Filer:	Gre	egory J. Murgia/Pati	ty Giebler		
Attorney Docket Number:	AL	C 3328-CON			
Filed as Large Entity					
Filing Fees for Utility under 35 USC 111(a)					
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:					
Pages:					
Claims:					
Miscellaneous-Filing:					
Petition:					
Patent-Appeals-and-Interference:					
Post-Allowance-and-Post-Issuance:					
Utility Appl Issue Fee		1501	1	960	960

Case 6:20-cv-00497-ADA Document Description	66-11 Filed Fee Code	04/09/21 Quantity	Page 324 of Amount	328 Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
	Tot	al in USD	(\$)	960

	nent 66-11 Filed 04/09/21 Page 325 of 328 Knowledgement Receipt
EFS ID:	24489414
Application Number:	13360310
International Application Number:	
Confirmation Number:	1373
Title of Invention:	INGRESS TRAFFIC FLOW CONTROL IN A DATA COMMUNICATIONS SYSTEM
First Named Inventor/Applicant Name:	John Madsen
Customer Number:	76614
Filer:	Gregory J. Murgia/Patty Giebler
Filer Authorized By:	Gregory J. Murgia
Attorney Docket Number:	ALC 3328-CON
Receipt Date:	30-DEC-2015
Filing Date:	27-JAN-2012
Time Stamp:	12:03:30
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$960
RAM confirmation Number	13522
Deposit Account	122325
Authorized User	GIEBLER, PATTI

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 326 of 328

Charge any Additional Fees required under 37 CFR 1.20 (Post Issuance fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1 Issue Fee Payment (PTO-85B)	Issue Fee Payment (PTO-85B)	2015-12-30_801272-US-	346519	no	1
	issue ree rayment (170 050)	CNT_Issue_Fee_Payment.pdf	a702154f4f39da5d48b81c6a024e23f54c6d c20a		
Warnings:					
Information:					
2 Fee Worksheet (SB06)	Fee Worksheet (SR06)	fee-info.pdf	30609	no	2
	Tee tronsmeet (5500)	ree illioipai	212d5bbef6ee3db981024f73a20c4a1e847 106ac		
Warnings:					
Information:					
Total Files Size (in bytes):			37	77128	

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Case 6:20-cv-00497-ADA Document 66-11 Filed 04/09/21 Page 327 of 328



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/360,310	02/09/2016	9258232	ALC 3328-CON	1373

76614

01/20/2016

Terry W. Kramer, Esq. Kramer & Amado, P.C. 330 John Carlyle Street 3rd Floor Alexandria, VA 22314

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment is 738 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

John Madsen, Ottawa, CANADA; Joey Chow, Nepean, CANADA; Dion Pike, Stittsville, CANADA;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit <u>SelectUSA.gov</u>.

AO 120 (Rev. 08/10)

TO:

Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450

Alexandria, VA 22313-1450

REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK

In Complianc filed in the U.S. Dist		5 U.S.C. § 1116 you are hereby advised that a court at Western District of Texas	ction has been on the following
	Patents. (the patent action		on the following
DOCKET NO. 6:20-cv-495	DATE FILED 6/3/2020	U.S. DISTRICT COURT Western District of Te	exas
PLAINTIFF		DEFENDANT	
WSOU INVESTMENTS, LICENSING AND DEVE		ZTE CORPORATION, ZTE (USA) ZTE (TX), INC.) INC.;
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRA	ADEMARK
1 U.S. 9,258,232	2/9/2016	WSOU Investments, LLC	
2			
3			
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5			
	In the above—entitled case, the	following patent(s)/ trademark(s) have been included:	
DATE INCLUDED	INCLUDED BY	ndment	☐ Other Pleading
	INCLUDED BY		Other Pleading
DATE INCLUDED PATENT OR	INCLUDED BY Ame DATE OF PATENT	ndment	Other Pleading
DATE INCLUDED PATENT OR TRADEMARK NO.	INCLUDED BY Ame DATE OF PATENT	ndment	Other Pleading
DATE INCLUDED PATENT OR TRADEMARK NO. 1	INCLUDED BY Ame DATE OF PATENT	ndment	Other Pleading
PATENT OR TRADEMARK NO. 1	INCLUDED BY Ame DATE OF PATENT	ndment	Other Pleading
PATENT OR TRADEMARK NO. 1 2	INCLUDED BY Ame DATE OF PATENT	ndment	Other Pleading
PATENT OR TRADEMARK NO. 1 2 3 4	INCLUDED BY DATE OF PATENT OR TRADEMARK	ndment	Other Pleading
PATENT OR TRADEMARK NO. 1 2 3 4	INCLUDED BY DATE OF PATENT OR TRADEMARK	ndment	Other Pleading